100 Square

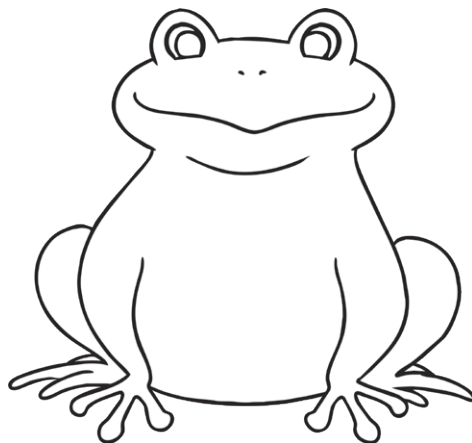| 1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

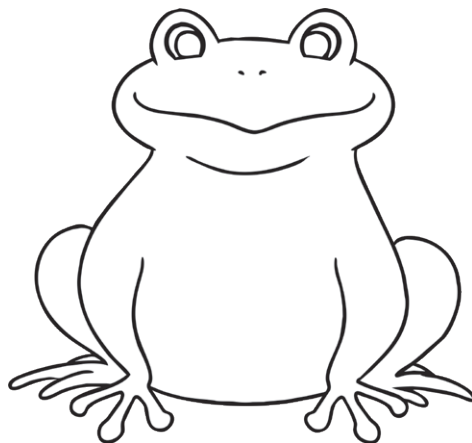# Lily Pad Hopping

To count forwards and backwards in steps of ten from any number.

Frankie is counting in steps of 10.
What are the next 3 numbers in these sequences?

| 40 | 50 | 60 | | | |

| 45 | 55 | 65 | | | |

| 100 | 90 | 80 | | | |

| 93 | 83 | 73 | | | |

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Lily Pad Hopping
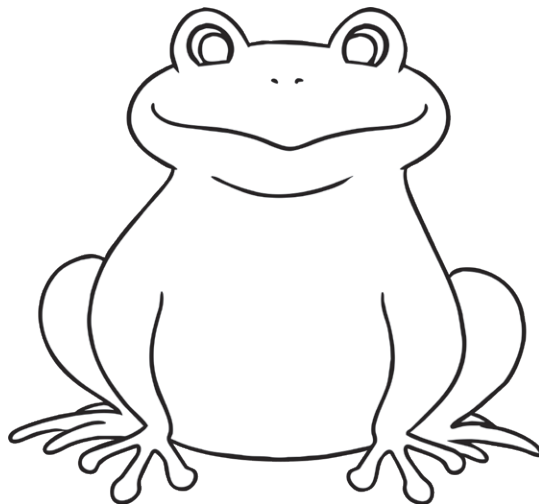
Help Frankie reach the flower by counting in steps of 10.

67	79	78	45	35
57	97	87	62	53
47	74	77	67	57
32	17	76	46	47
15	63	65	27	37
34	78	47	17	82
98	37	25	71	35

Answers

Frankie is counting in steps of 10.
What are the next 3 numbers in these sequences?
40, 50, 60, **70, 80, 90**
45, 55, 65, **75, 85, 95**
100, 90, 80, **70, 60, 50**
93, 83, 73, **63, 53, 43**

Help Frankie reach the flower by counting in steps of 10.

67	79	78	45	35
57	97	87	62	53
47	74	77	67	57
32	17	76	46	47
15	63	65	27	37
34	78	47	17	82
98	37	25	71	35

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Lily Pad Hopping

To count forwards and backwards in steps of ten from any number.

Frankie is counting in steps of 10.
Can you fill in the missing numbers in each sequence?

65	75	85			
23	33				
96	86	76			
	71	81			

Lily Pad Hopping

To count forwards and backwards in steps of ten from any number.

How many different ways can you help Frankie cross the pond when counting in steps of ten?

Start

129	131	33	116	106	7	47
119	97	43	48	96	86	76
109	99	53	55	62	66	56
89	63	73	79	40	46	32
79	83	85	15			
69	93	112	97	9	36	26
59	103	123	54	31		

Finish

Answers

Frankie is counting in steps of 10.
Can you fill in the missing numbers in each sequence?

65	75	85	95	105	115

23	33	43	53	63	73

96	86	76	66	56	46

61	71	81	91	101	111

Answers

How many different ways can you help Frankie cross the pond when counting in steps of ten?
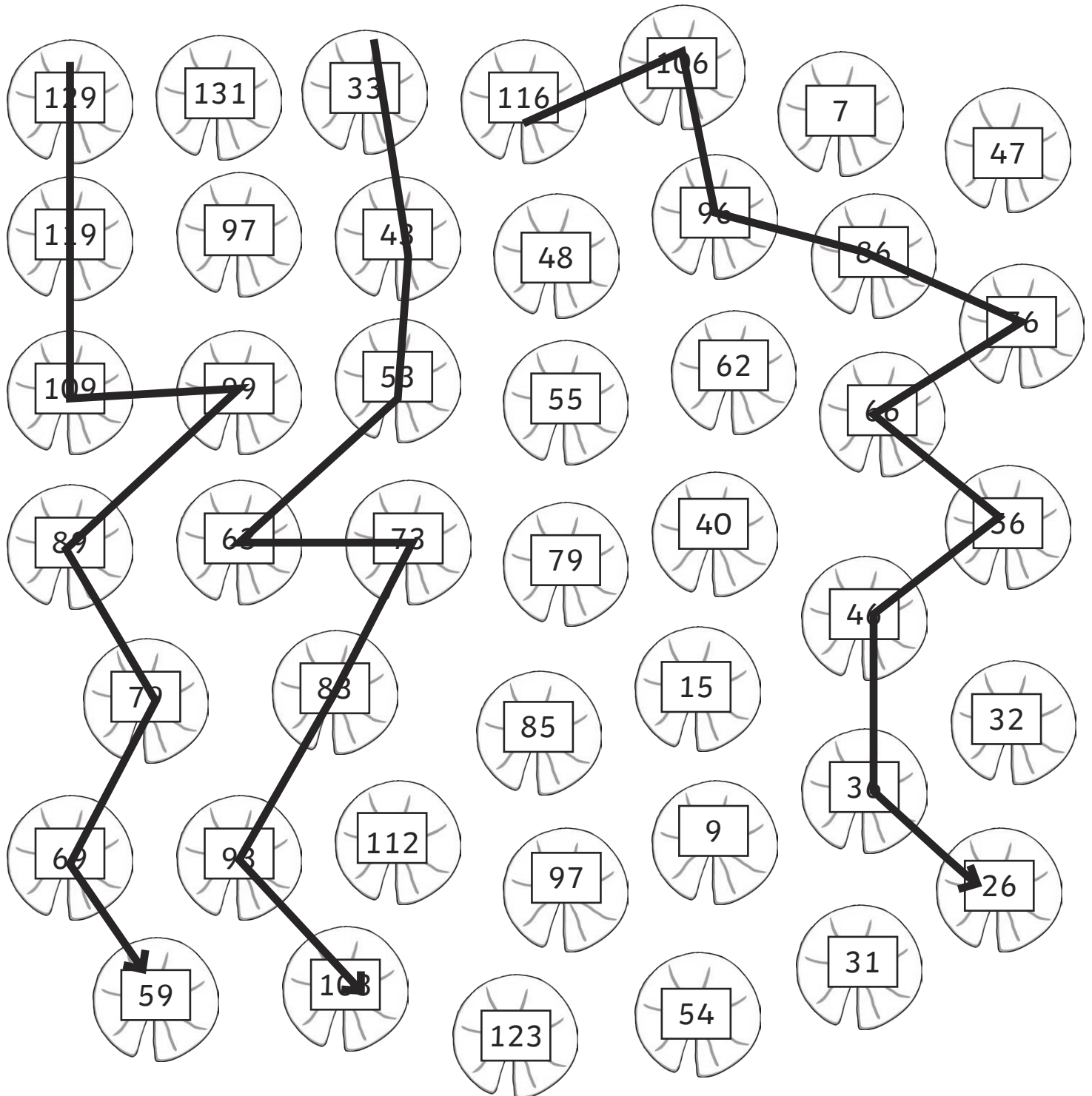
129 131 33 116 106 7 47

119 97 43 48 96 86

109 99 53 55 62 76

89 63 73 79 40 66 56

72 83 85 15 46 32

69 93 112 97 9 36 26

59 103 123 54 31

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Lily Pad Hopping

To count forwards and backwards in steps of ten from any number.

Frankie is counting in steps of 10.
Can you fill in the missing numbers in each sequence?

49			79	89	99
76	86			116	126
134	124	114			
		57	67	77	

Lily Pad Hopping

To count forwards and backwards in steps of ten from any number.

How many different ways can you help Frankie
cross the pond when counting in steps of ten?
Fill in the missing numbers to complete your routes.

Start

22	25	129	63	114	104	
	36	119		118	98	
42	55	109	117	83	46	
	78		124		3	74
62	89	88	103			64
72		79	77		35	54
92	69	112	123		4	

Finish

Answers

Frankie is counting in steps of 10. Can you fill in the missing numbers in each sequence?

49, **59, 69**, 79, 89, 99

76, 86, **96, 106,** 116, 126

134, 124, 114, **104, 94, 84**

37, 47, 57, 67, 77, **87**

How many different ways can you help Frankie cross the pond when counting in steps of ten? Fill in the missing numbers to complete your routes.

22	25	129	63	114	104	94
32	36	119	73	118	98	84
42	55	109	117	83	46	74
52	78	99	124	93	3	
62	89		88	103	35	64
72	82	79	77	113		54
92		69	112	123	4	
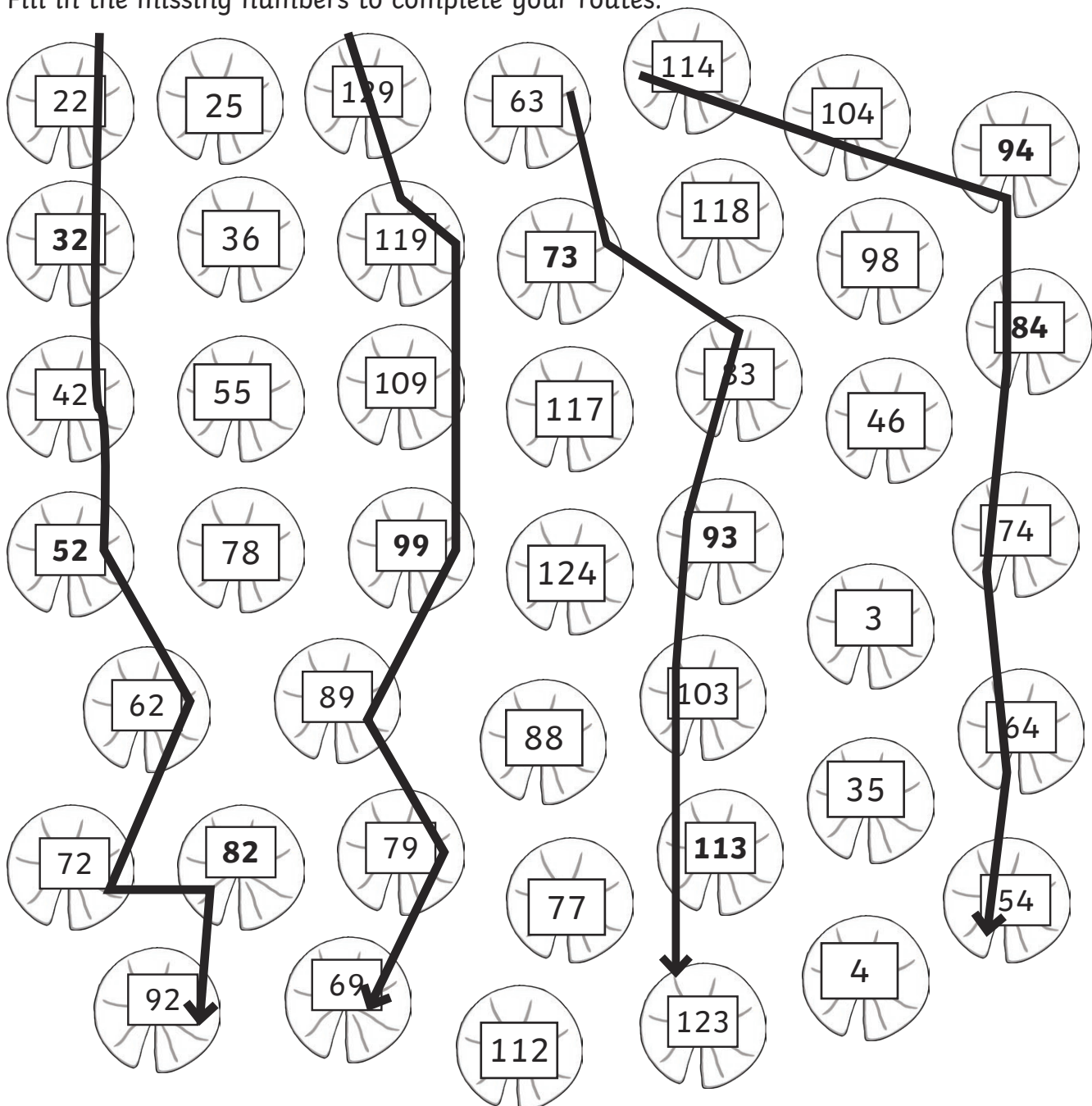
34

thirty-four

3 tens + 4 ones
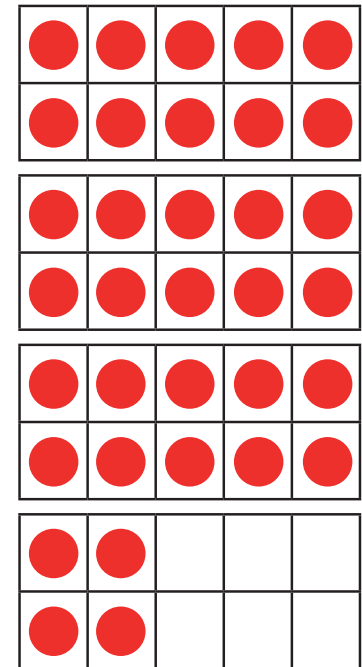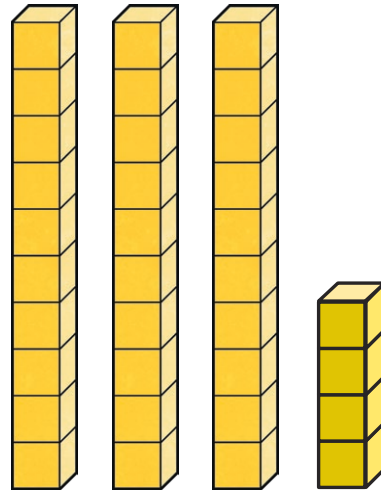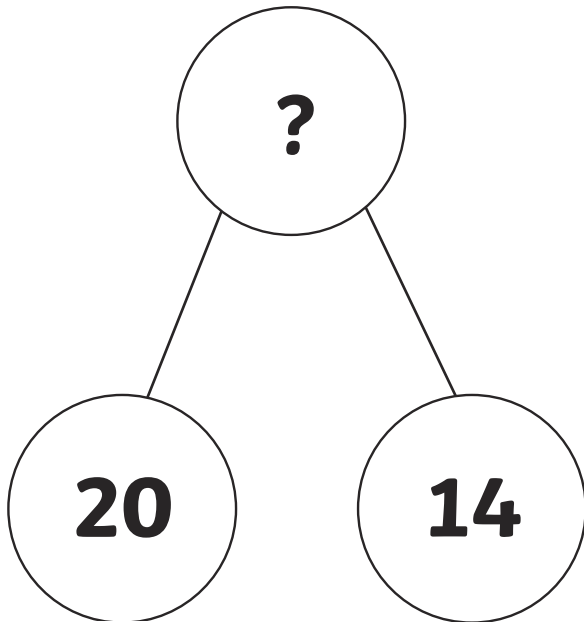
13

thirteen

1 ten + 3 ones
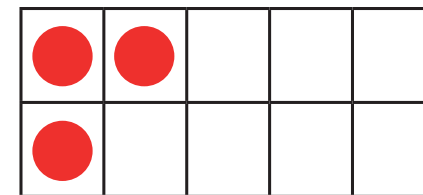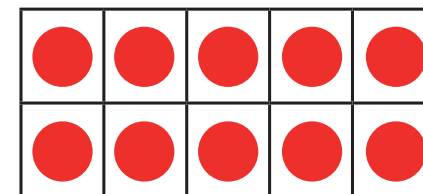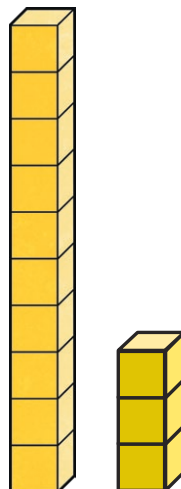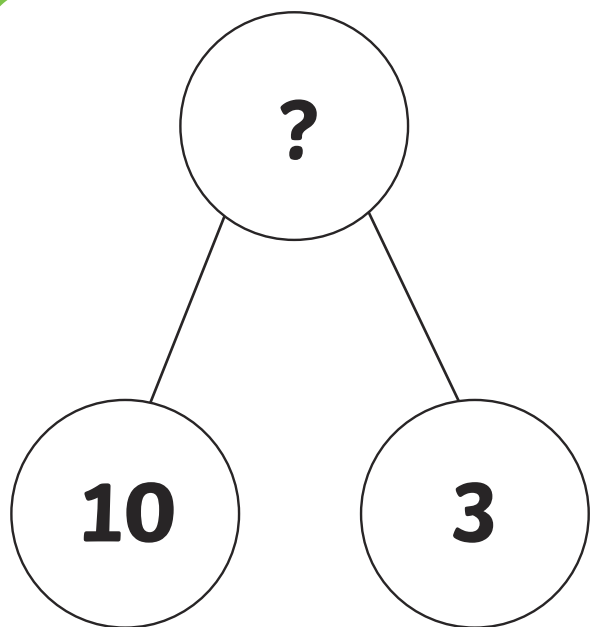
52

fifty-two

5 tens + 2 ones

?

40   12
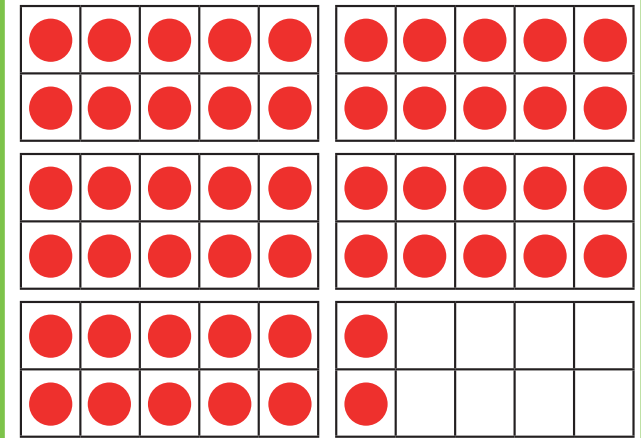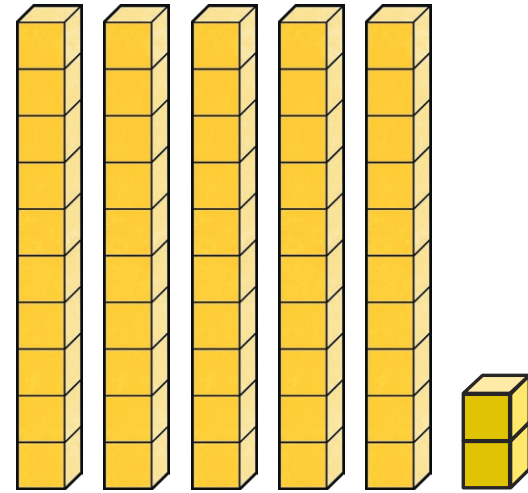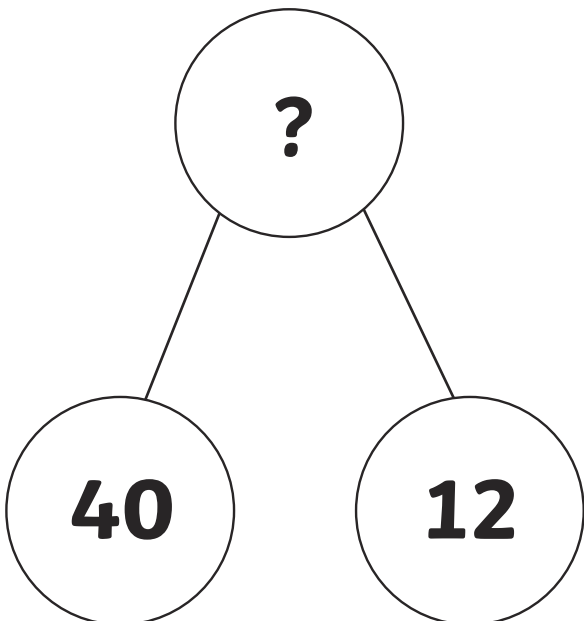
28

twenty-eight

2 tens + 8 ones
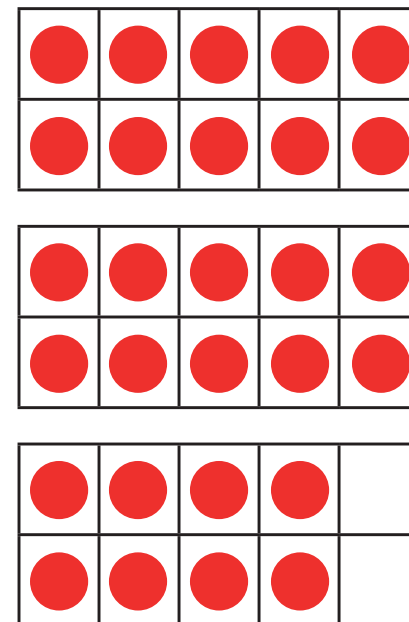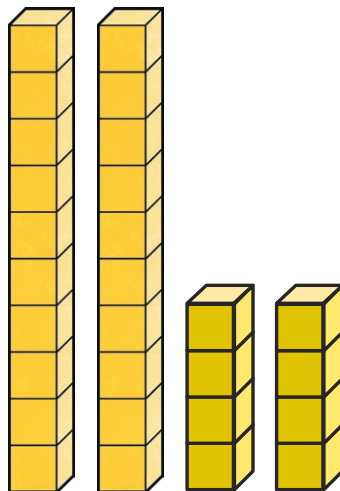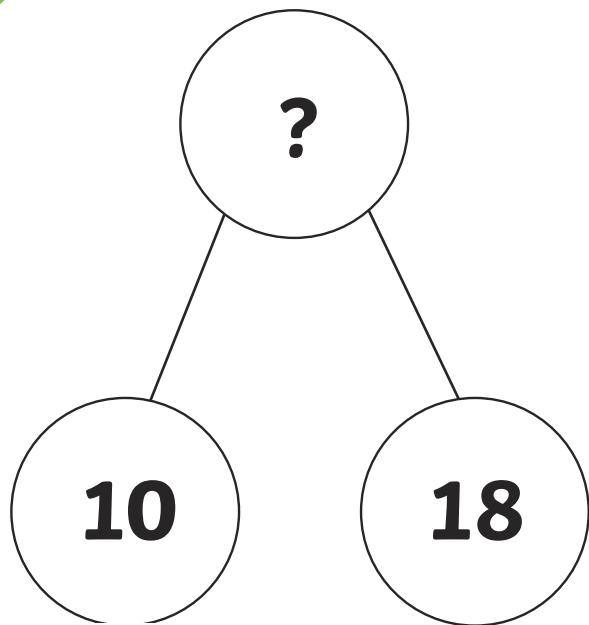
67

sixty-seven

6 tens + 7 ones

?

50   17

9

nine

0 tens + 9 ones

41

forty-one

4 tens + 1 one

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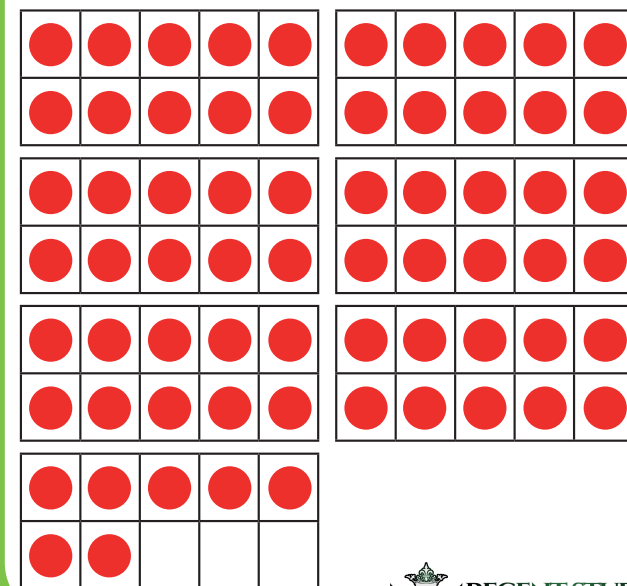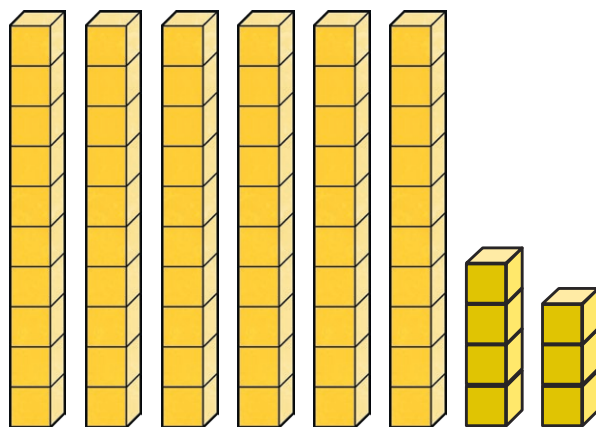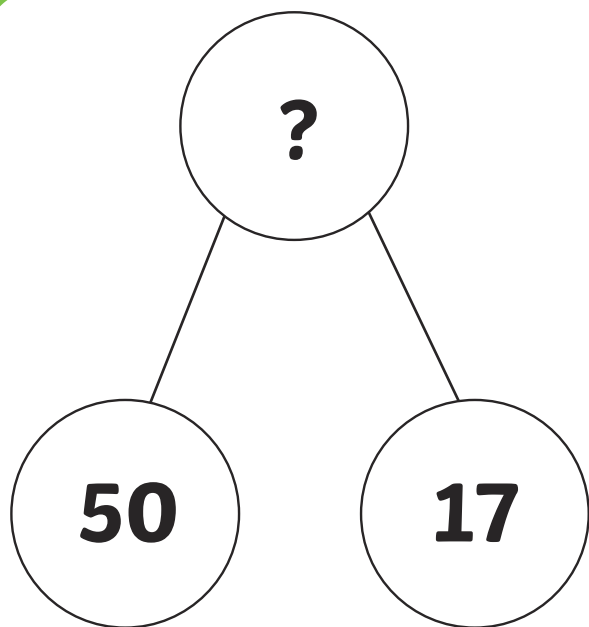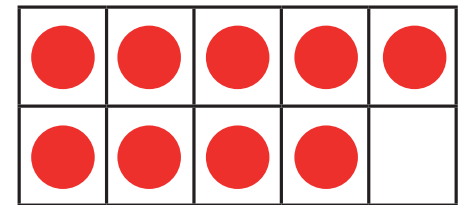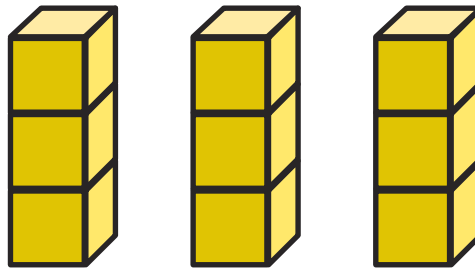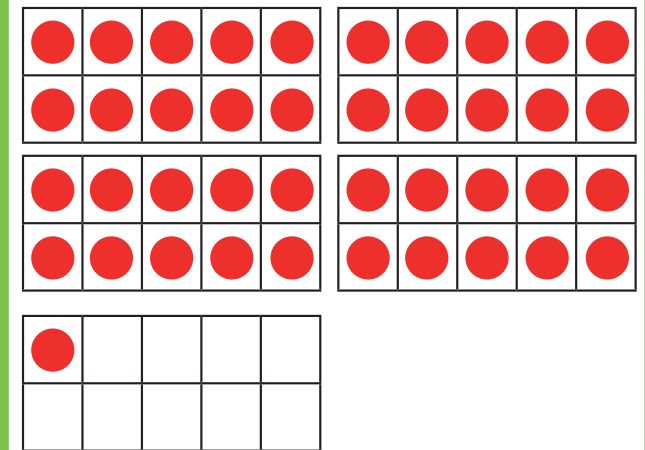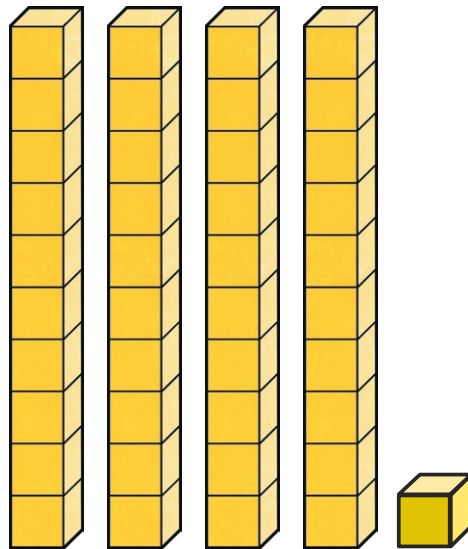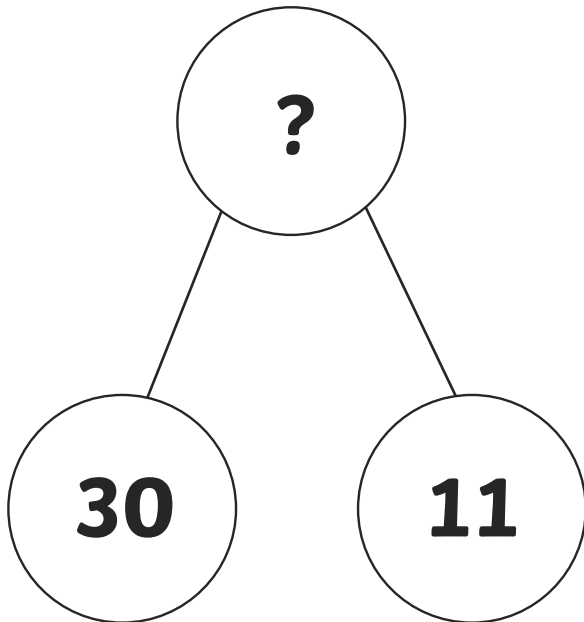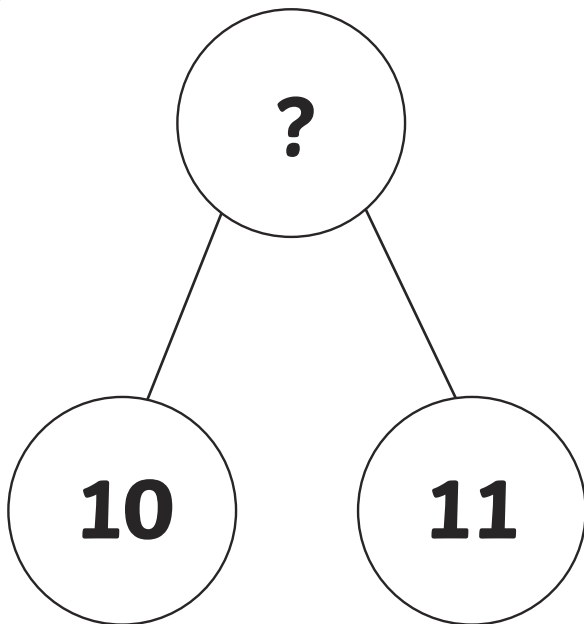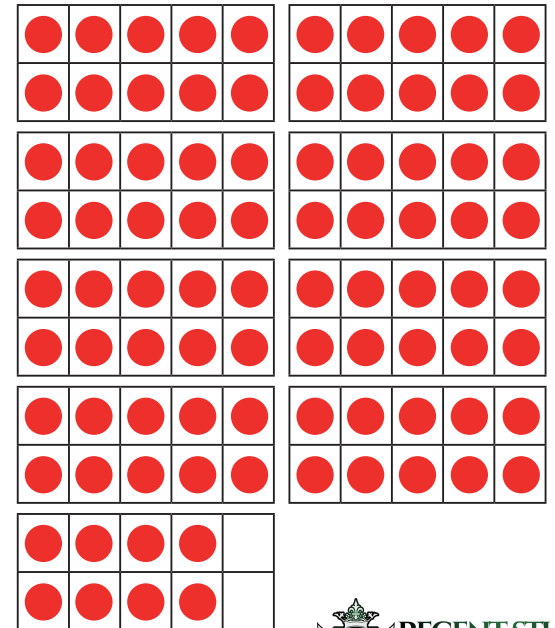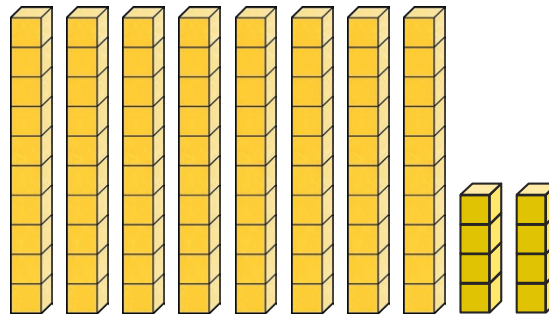
73

seventy-three

7 tens + 3 ones

?

50

23
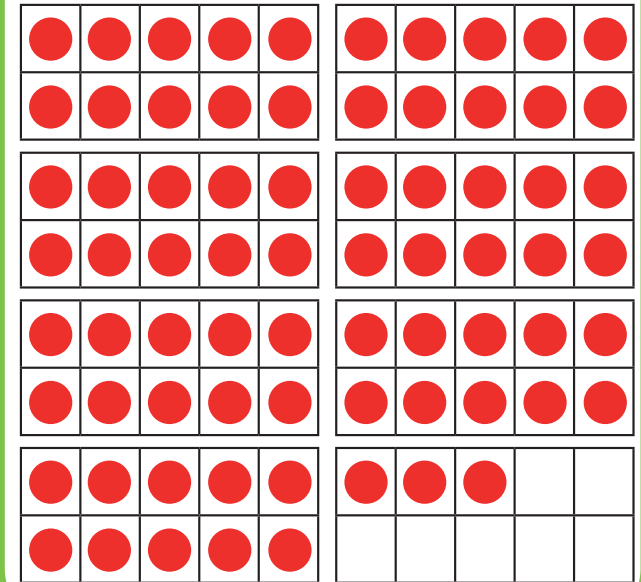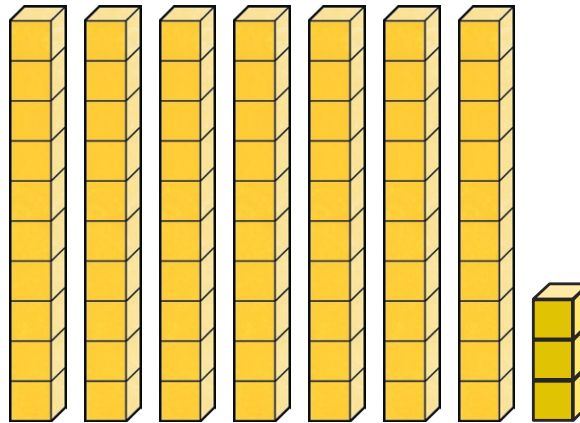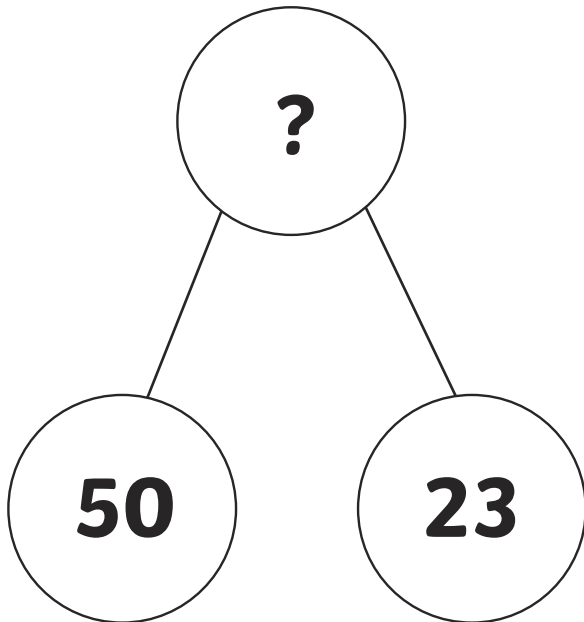
96
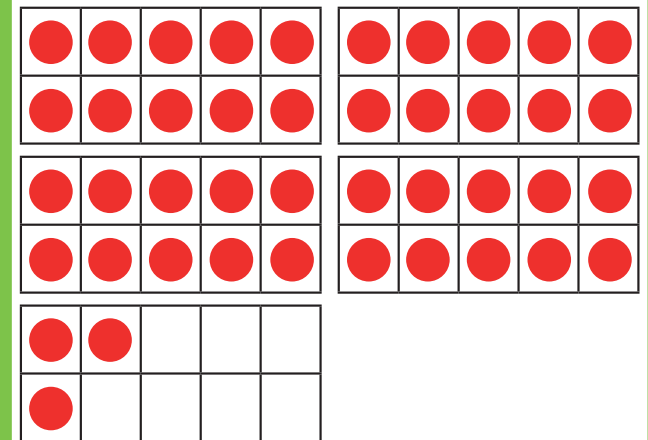
ninety-six

9 tens + 6 ones
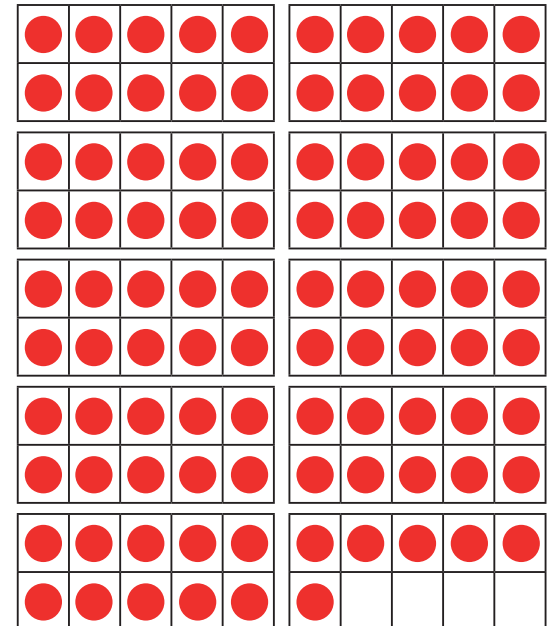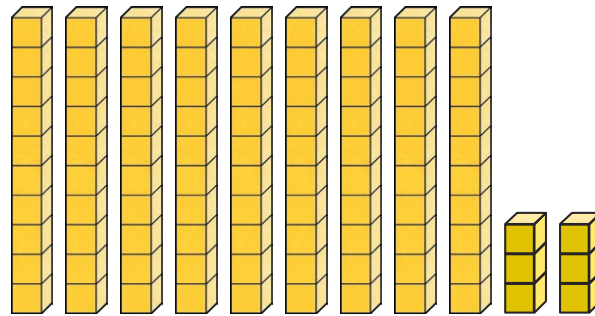
21

twenty-one
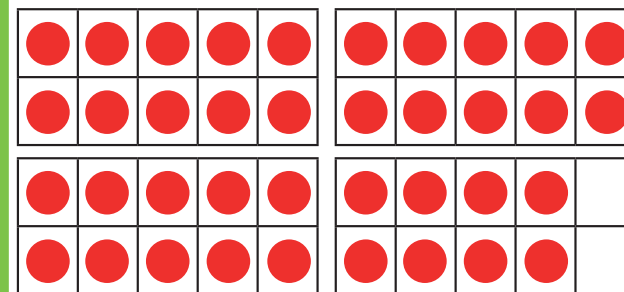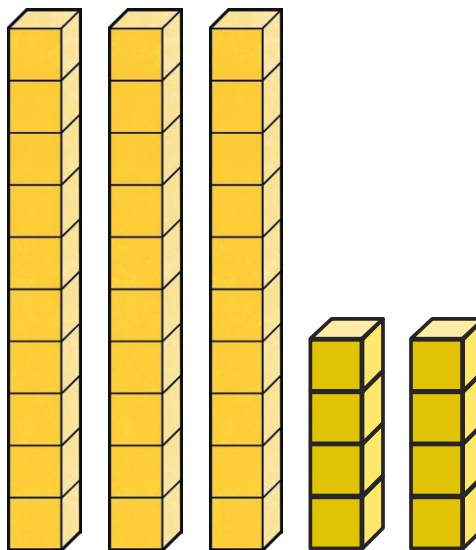
2 tens + 1 one
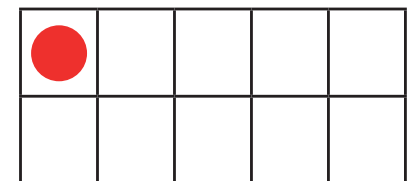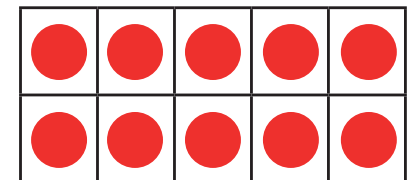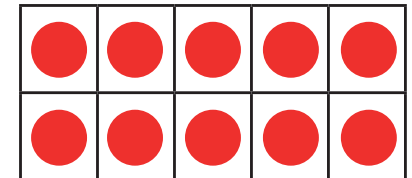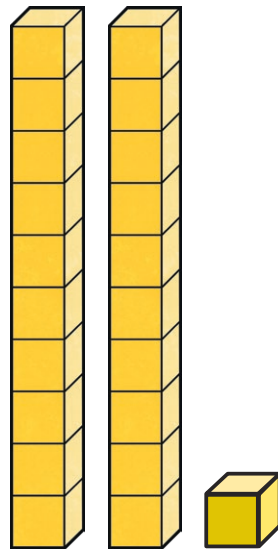
88

eighty-eight

8 tens + 8 ones
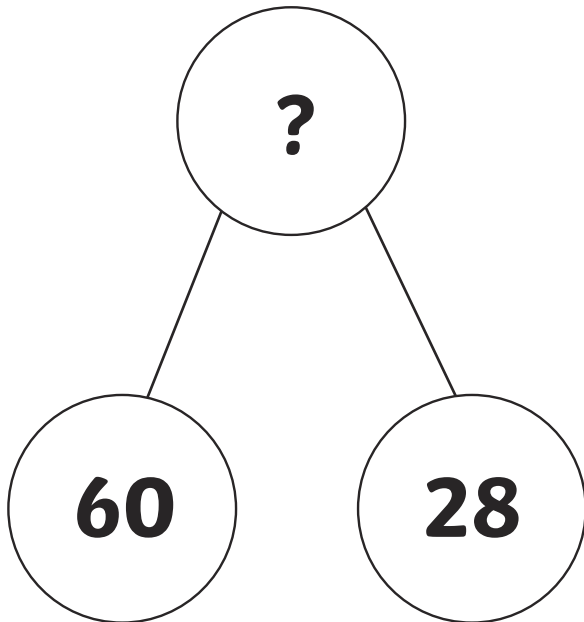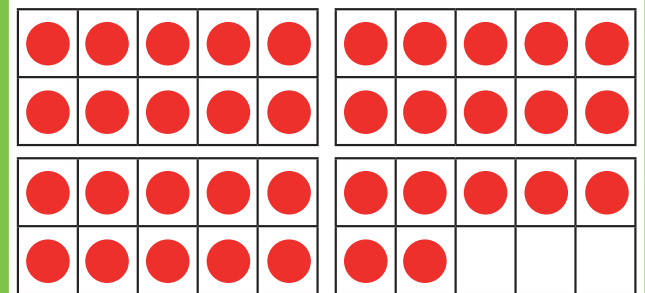
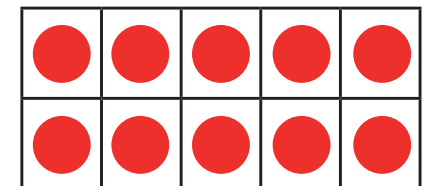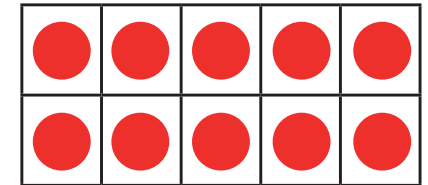43

forty-three

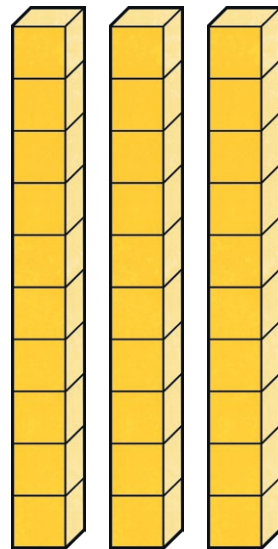4 tens + 3 ones
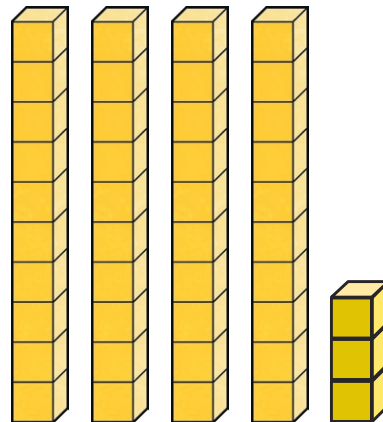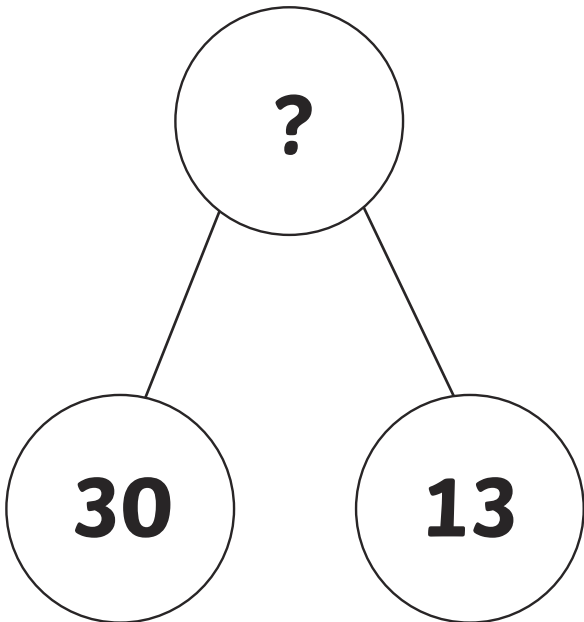
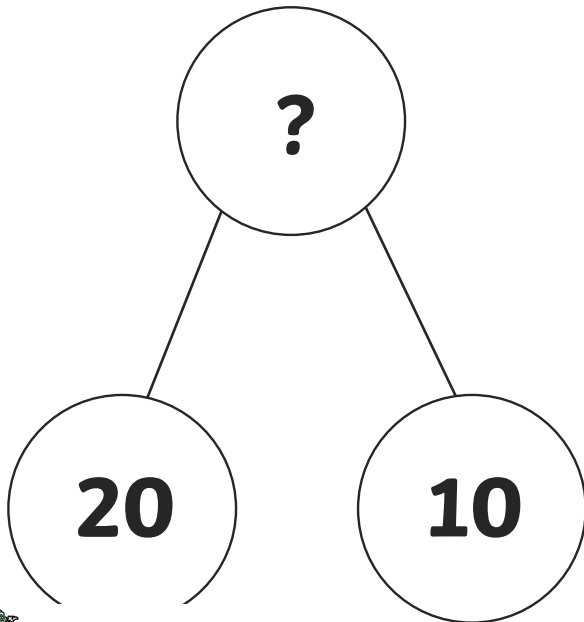| 38	thirty-eight	3 tens + 8 ones
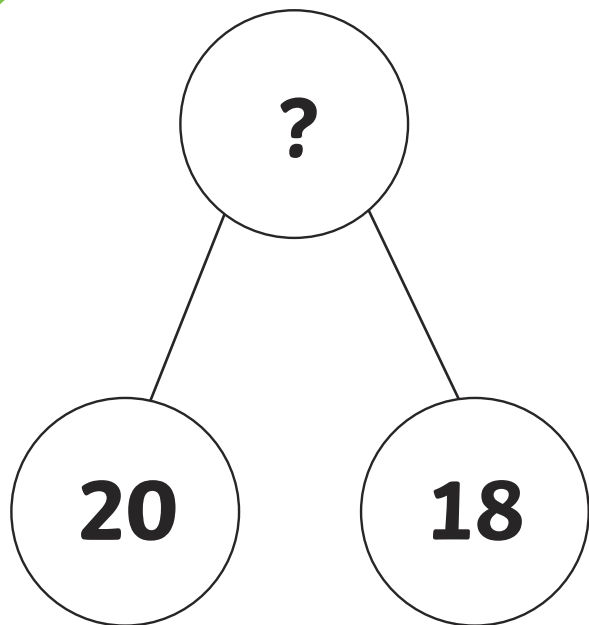
37

thirty-seven

3 tens + 7 ones
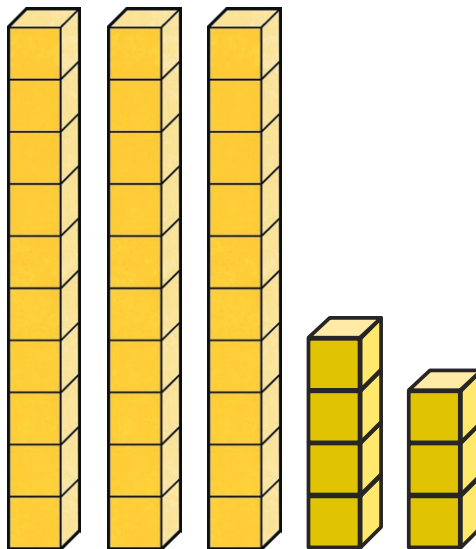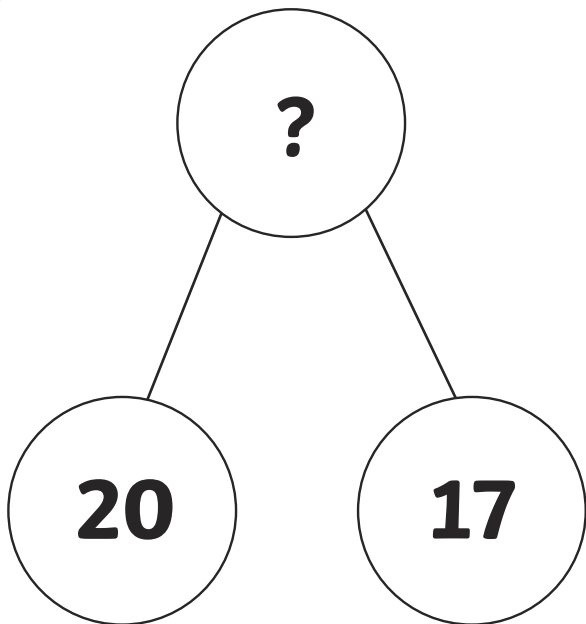
30

thirty

3 tens + 0 ones
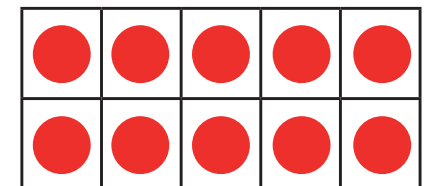
20

twenty

2 tens + 0 ones
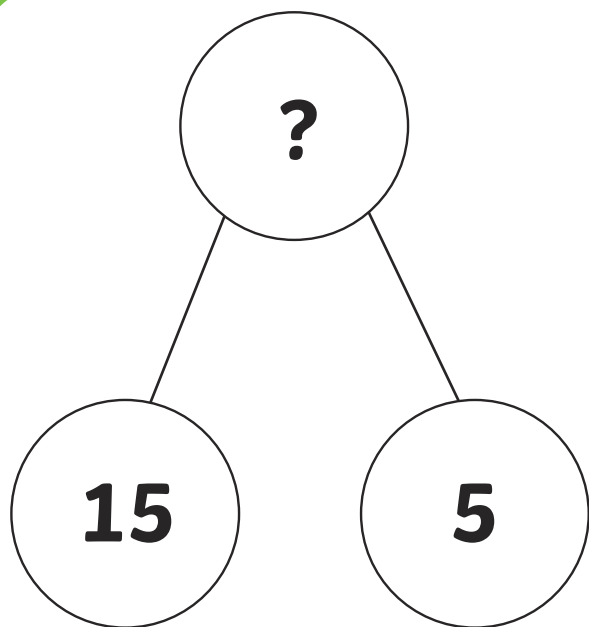
33

thirty-three

3 tens + 3 ones

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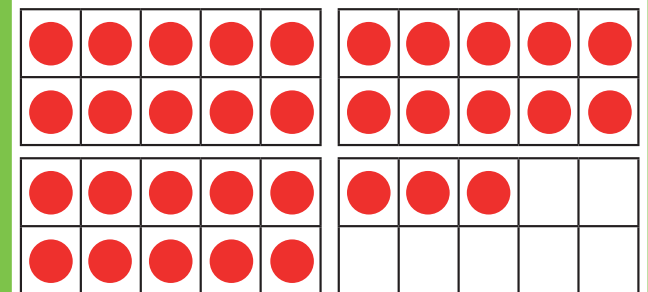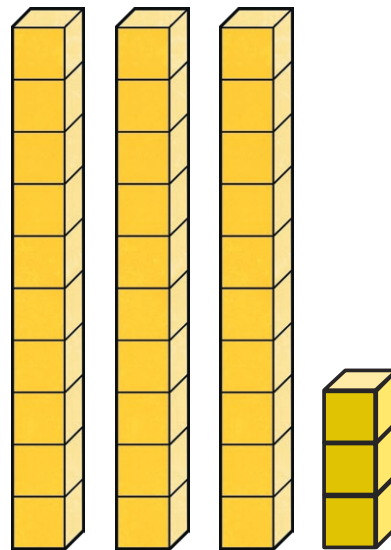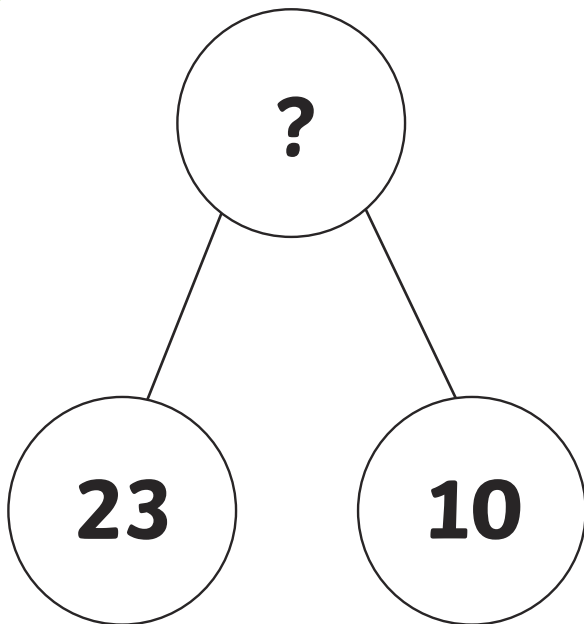
25

twenty-five

2 tens + 5 ones

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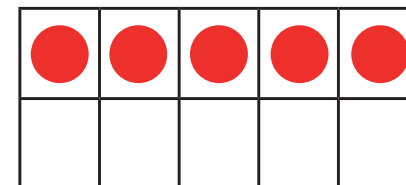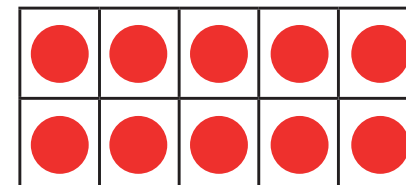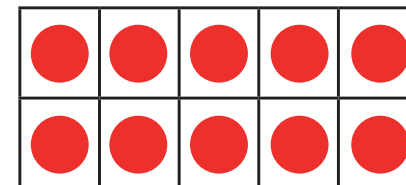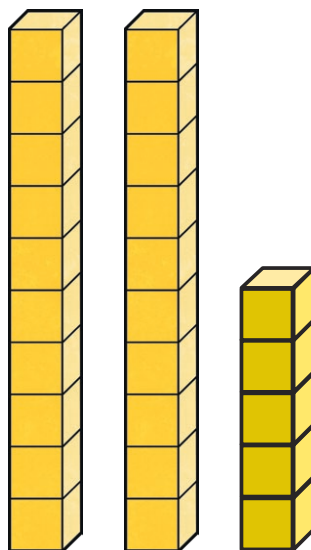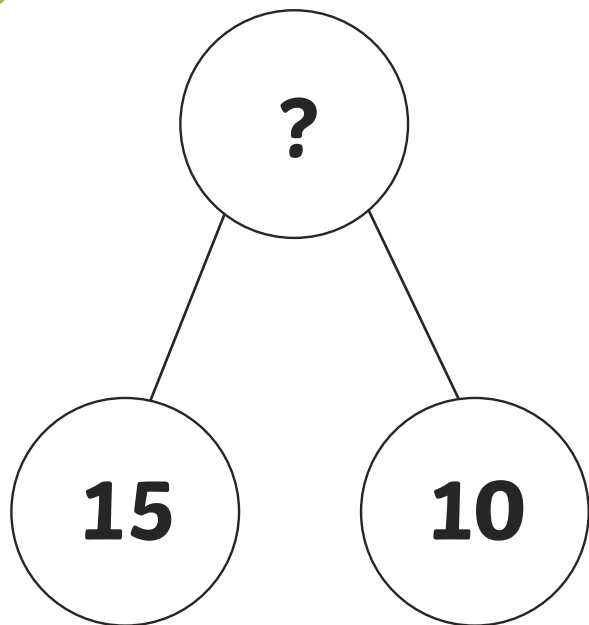
72

seventy-two

7 tens + 2 ones
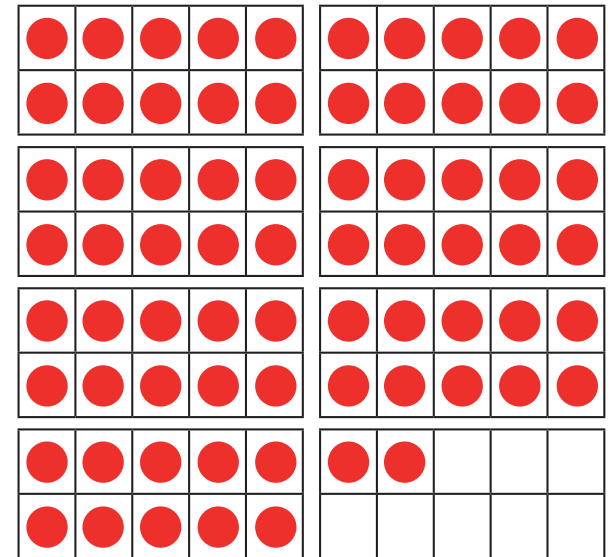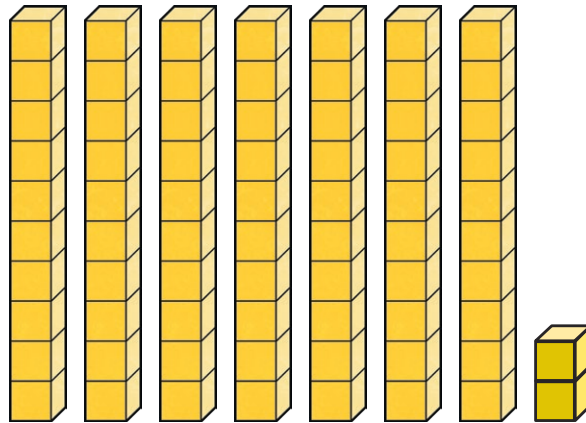
19

nineteen

1 ten + 9 ones

?

15   4
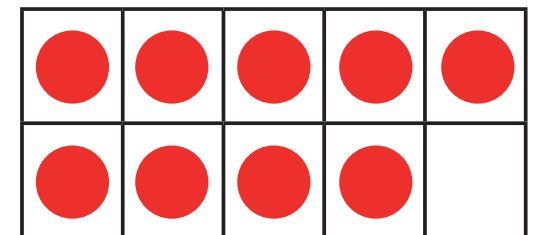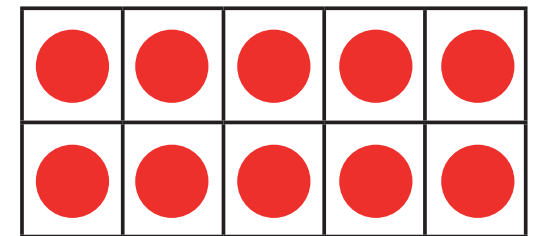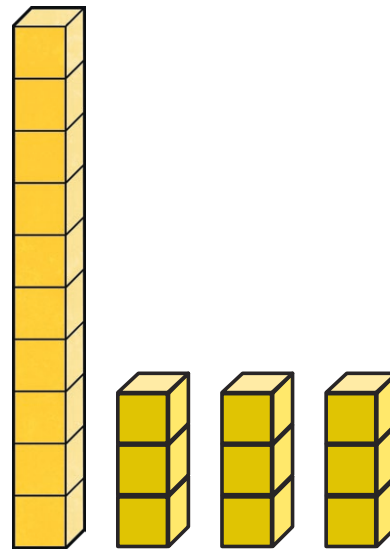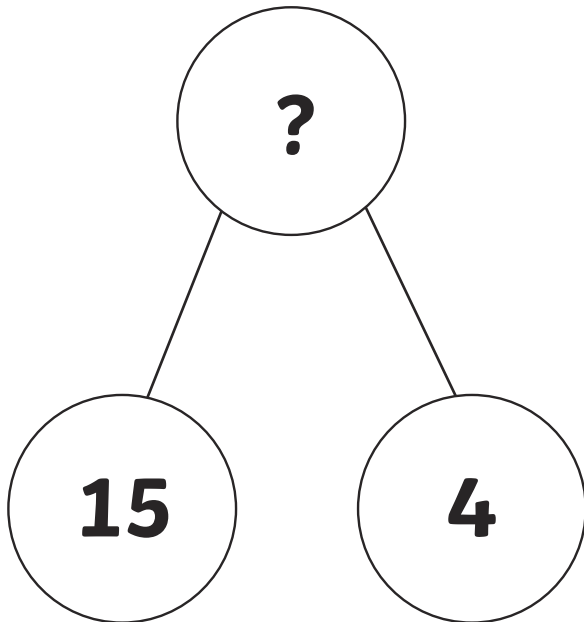
39

thirty-nine

3 tens + 9 ones
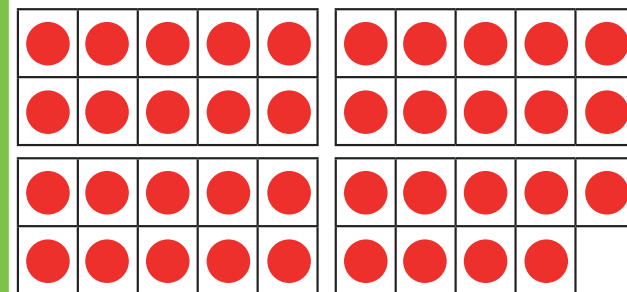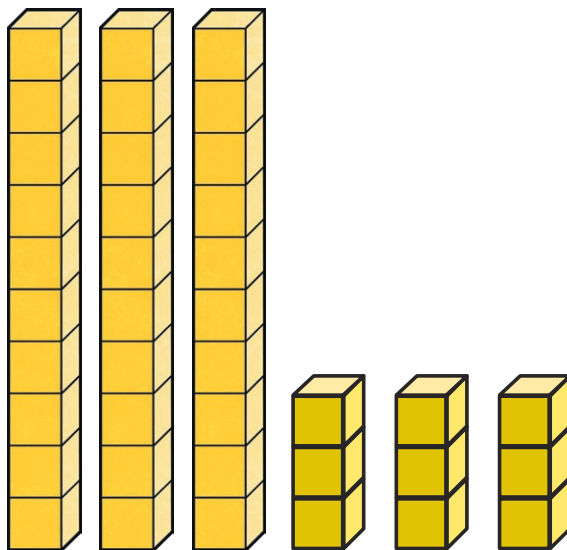
58

fifty-eight

5 tens + 8 ones

?

40   18
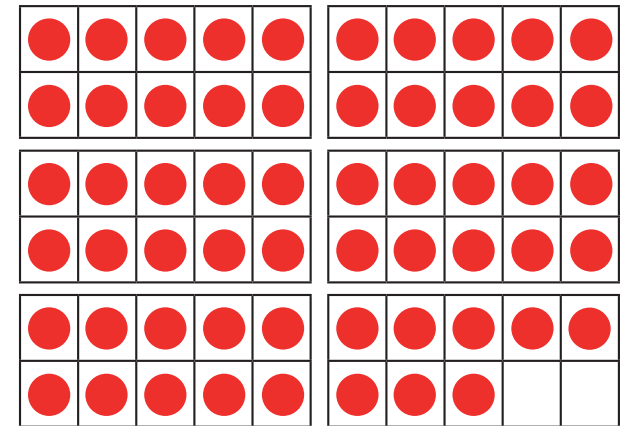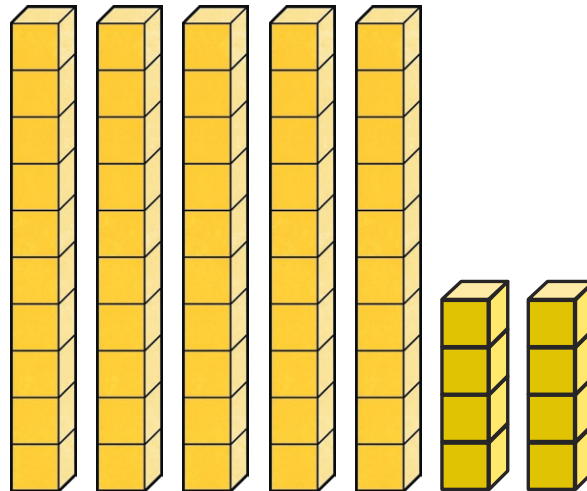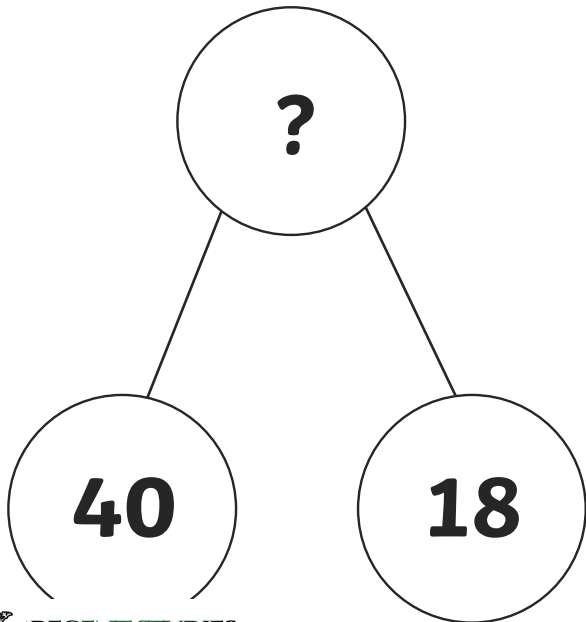
82

eighty-two

8 tens + 2 ones
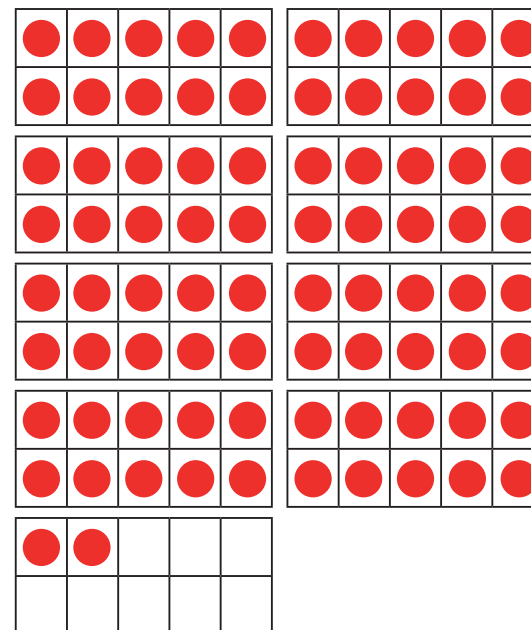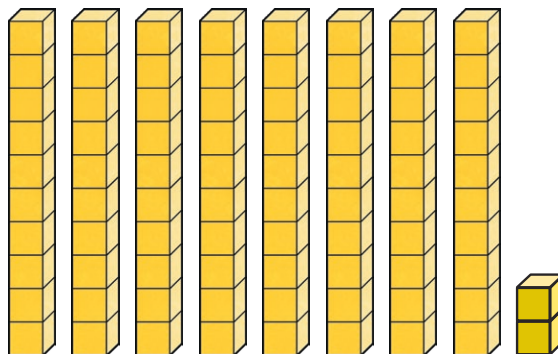
65

sixty-five

6 tens + 5 ones
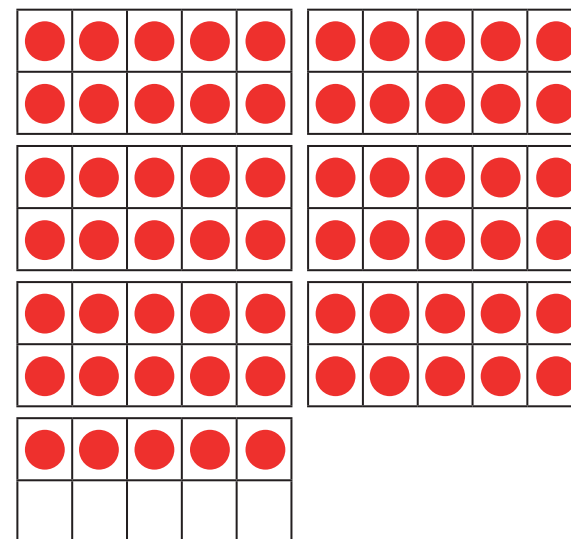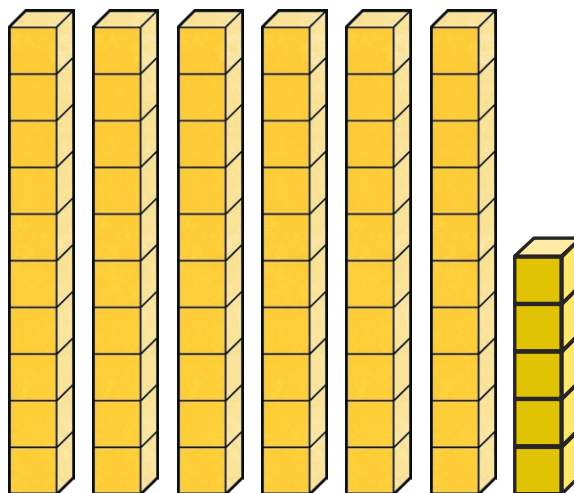
22

twenty-two

2 tens + 2 ones
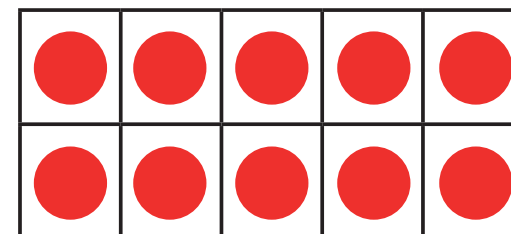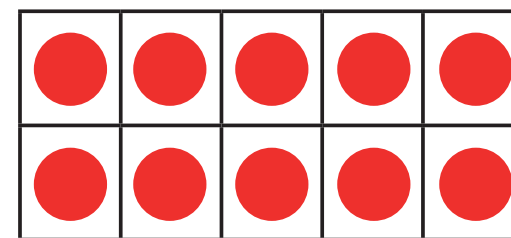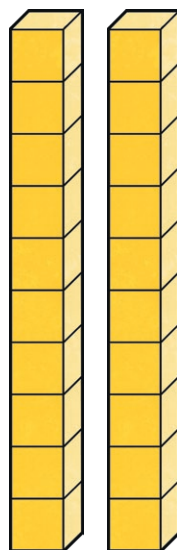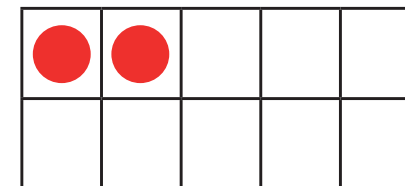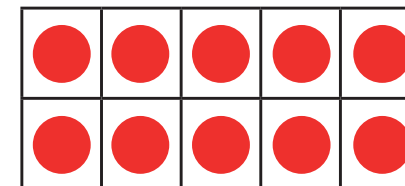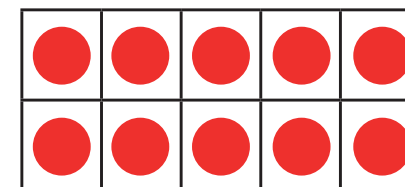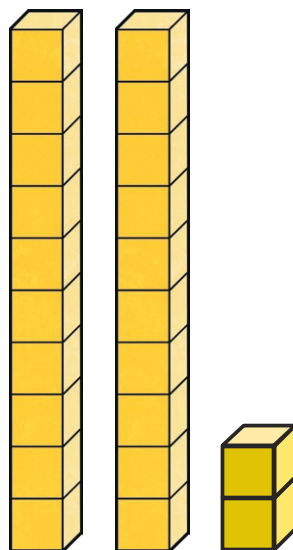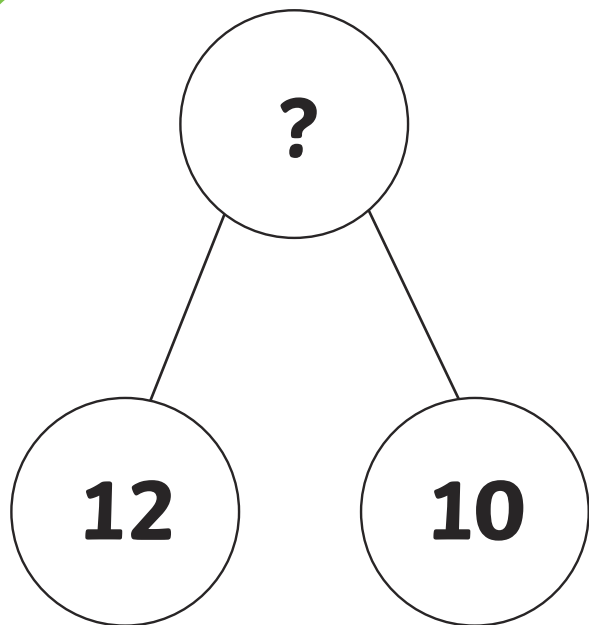
24

twenty-four

2 tens + 4 ones
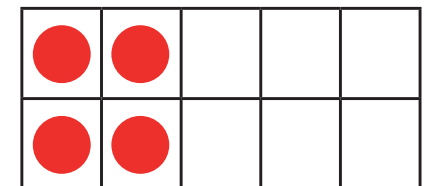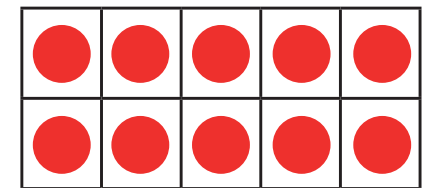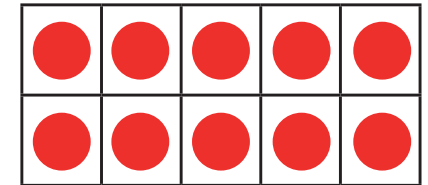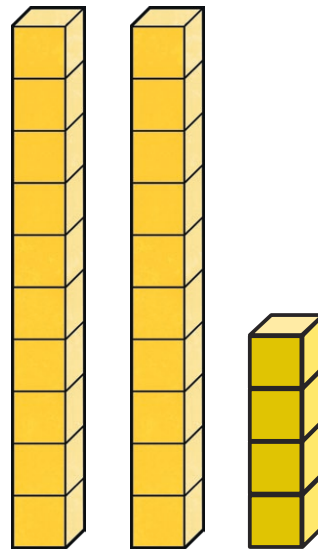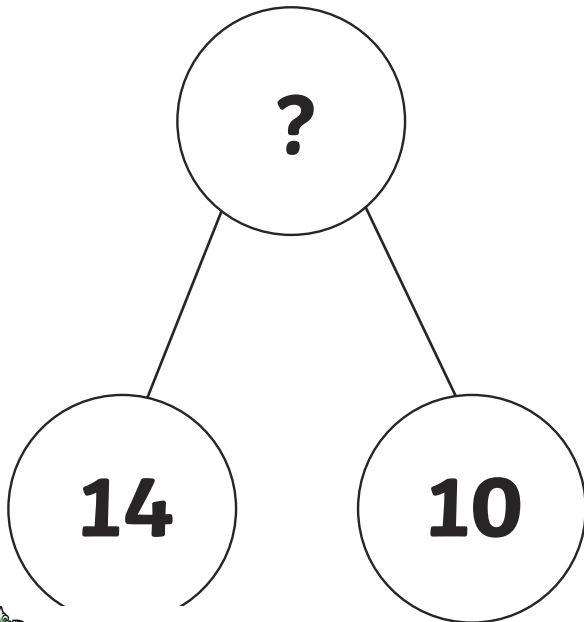
40

forty

4 tens + 0 ones
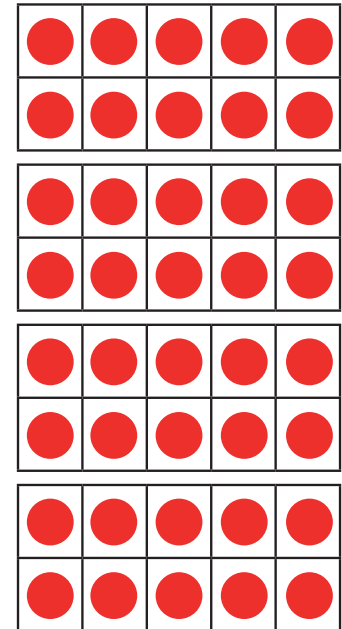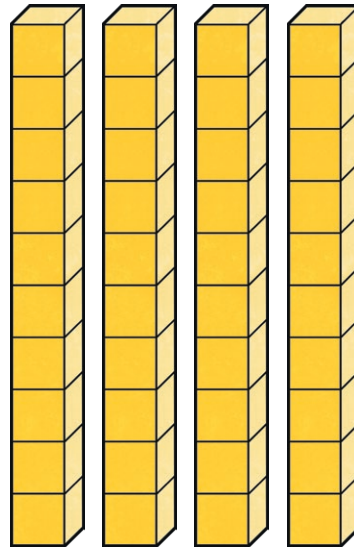
36

thirty-six

3 tens + 6 ones
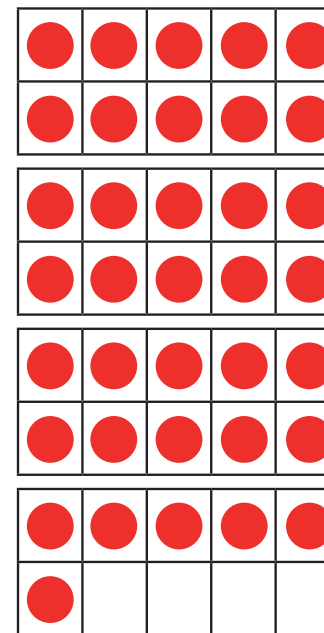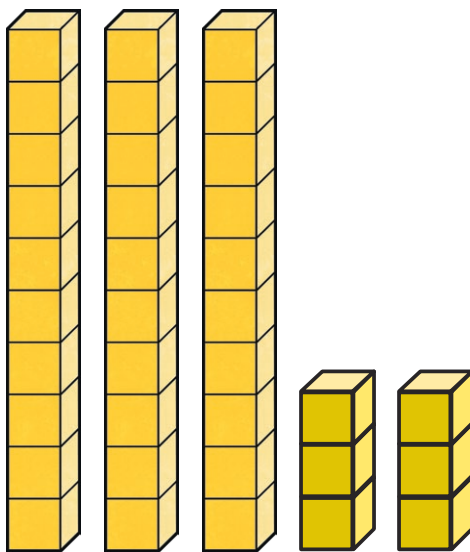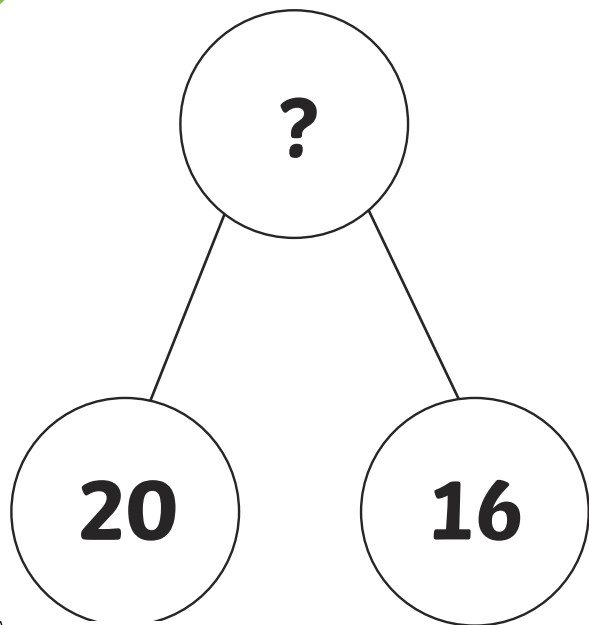
27

twenty-seven

2 tens + 7 ones
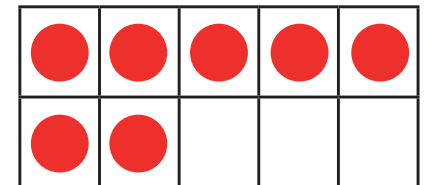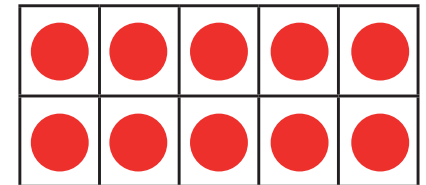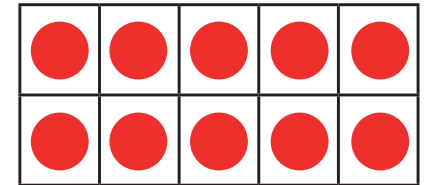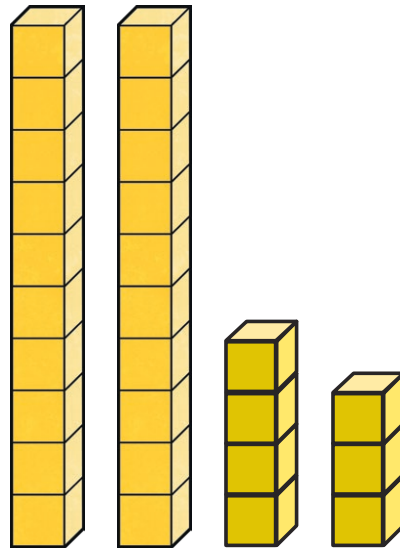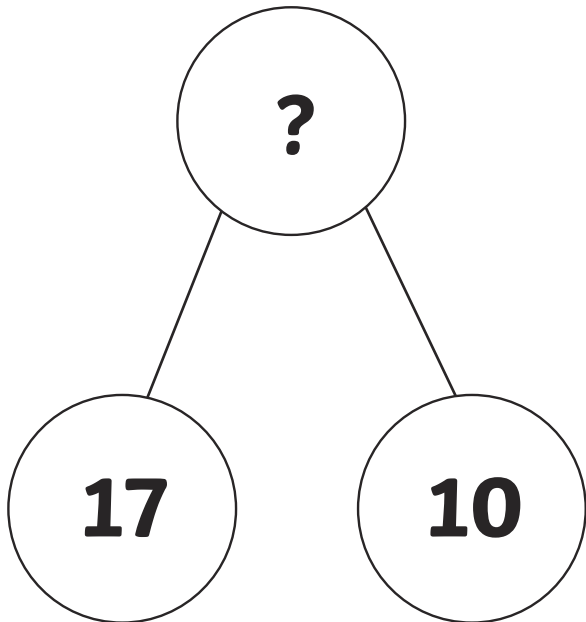
31

thirty-one

3 tens + 1 one
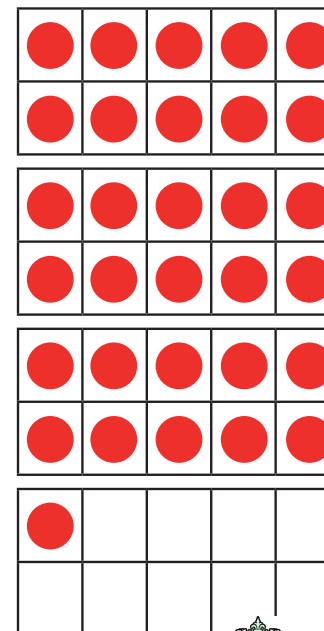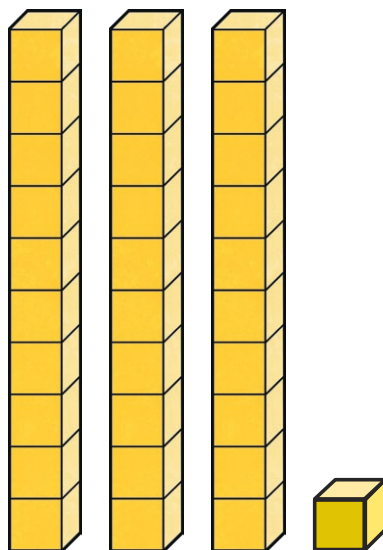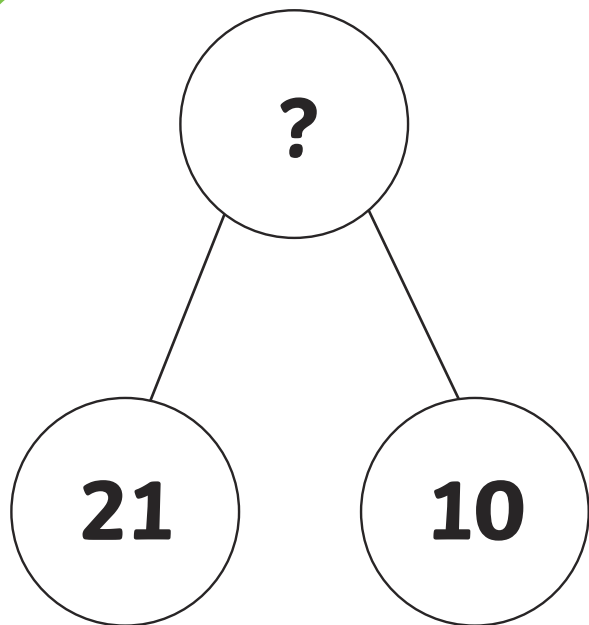
49

forty-nine

4 tens + 9 ones
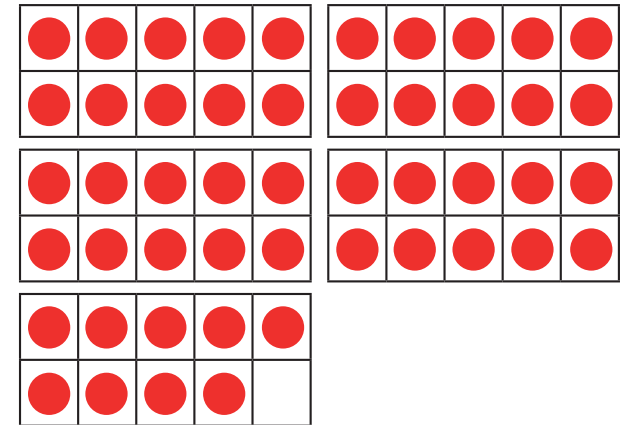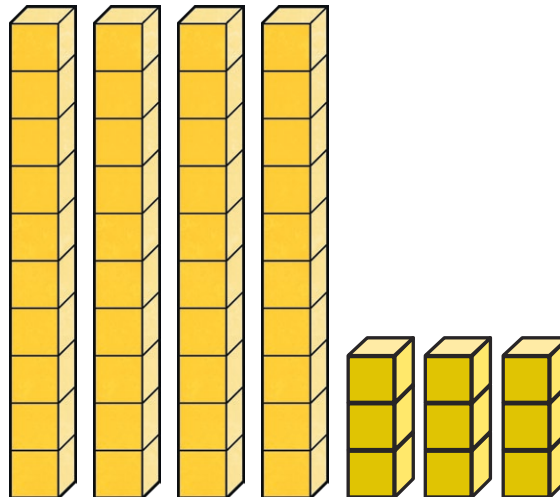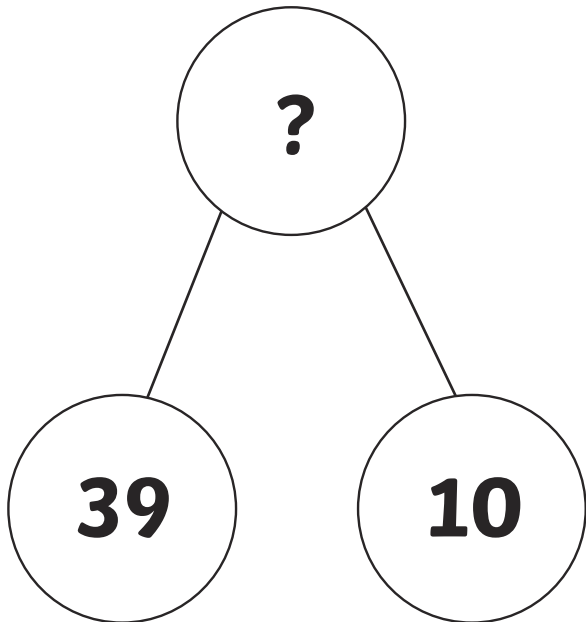
4

four

0 tens + 4 ones

0

1

2

3

4

5

6

7

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8

9

10

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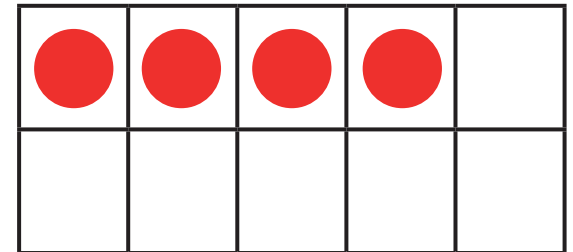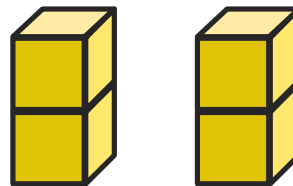
1

Amelia has ordered the following coins.

How has she ordered them?

Can you prove it?

2

Oliver has ordered the following quantities.

How has he ordered them?

Can you prove it?

3

Aliza has ordered the following items from longest to shortest.

14cm

10cm

8cm

2cm
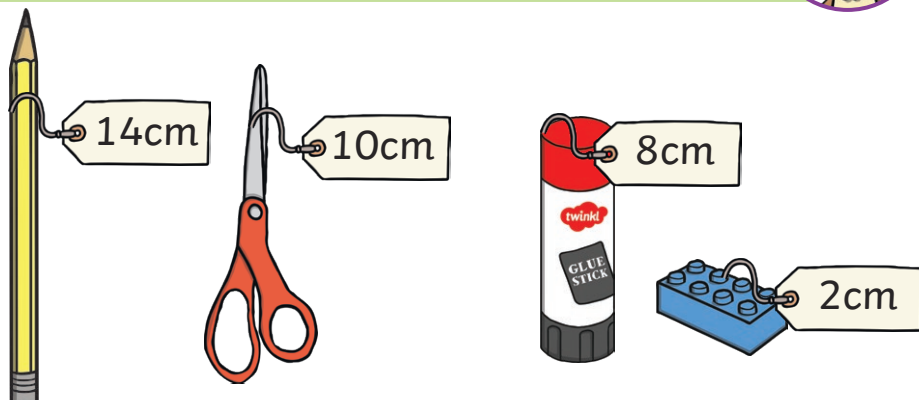
Is she correct?

4

Levi has ordered the following items from shortest to longest.

1cm

5cm

11cm

9cm

Is he correct?

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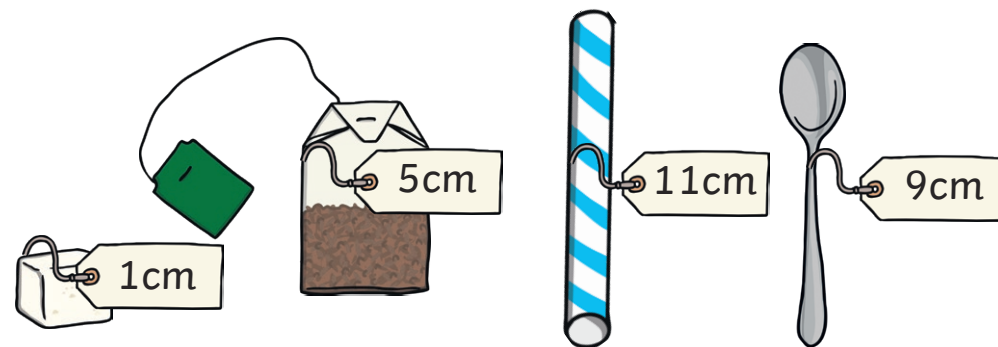
Ordering Numbers in Different Representations

Kuba is ordering numbers from greatest to smallest.

He wants to put this card: 40 + 9

after this card: 30 + 20

Is he correct?

Ordering Numbers in Different Representations

Marta is ordering numbers from greatest to smallest.

She wants to put this card: seventy-two

after this card: 27

Is she correct?

Ordering Numbers in Different Representations

Amrit times his friends in a sack race.

Sienna: 12 minutes

Otto: 13 minutes

Alma: 10 minutes

Lewis: 14 minutes

Who would win the first, second and third place?

Ordering Numbers in Different Representations

Kion runs a race with his friends. His time is 11 minutes.

Scarlett: 12 minutes

Oscar: 13 minutes

Ahmed: 10 minutes

Li: 14 minutes

What position does Kion come in the race?

Can you order the following items from heaviest to lightest?

5kg

Icing Sugar 2kg

Sugar 3kg

butter 1kg
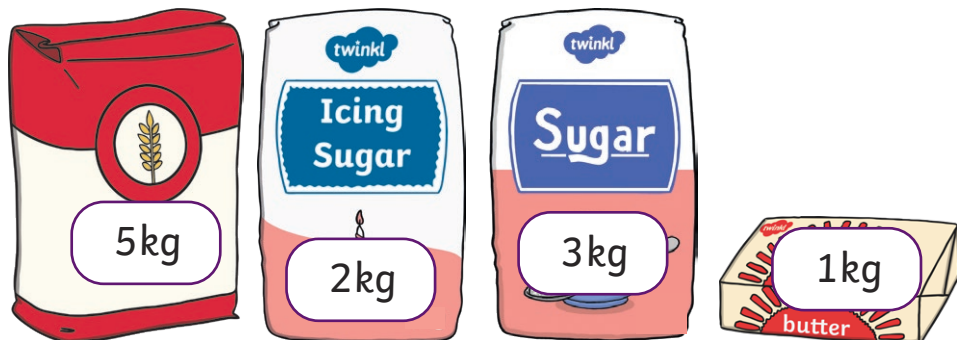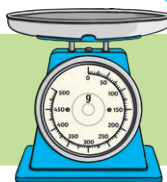
Where would a bag of rice weighing 6kg go if you were sorting the objects from heaviest to lightest?

5kg

Icing Sugar 2kg

Sugar 3kg

butter 1kg

How do you know?

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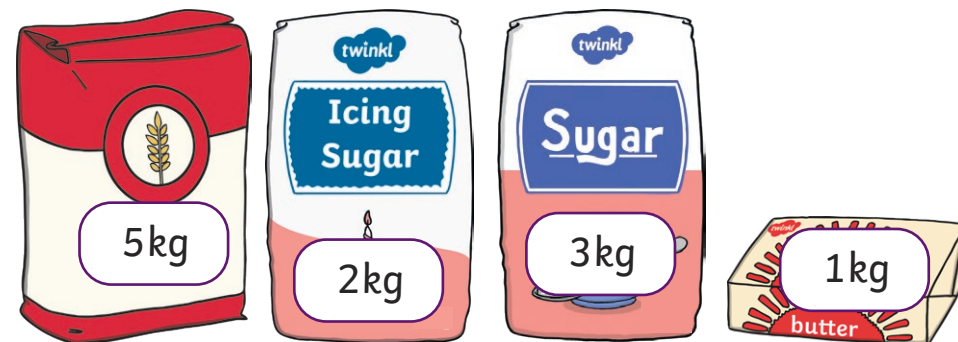
Answers

1. The coins have been ordered from smallest to greatest value.

2. The coins have been ordered from greatest to smallest value.

3. Yes.

4. No. The straw is the longest so should come last.

5. Yes.

6. No. 72 is greater than 27 so it needs to come before it.

7. 1st: Alma
   2nd: Sienna
   3rd: Otto

8. Kion comes 2nd.

9.
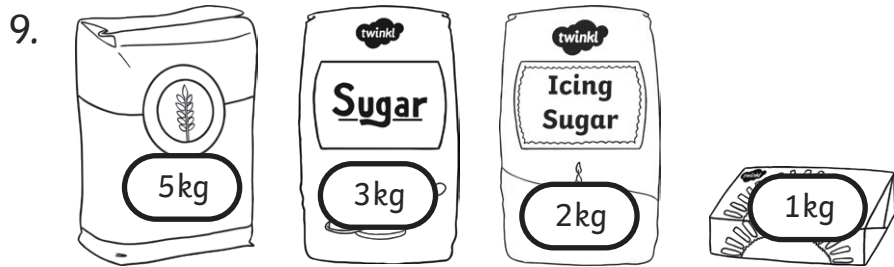
10. The rice would go first as it is the heaviest object.

Ordering Numbers Represented Differently

To order numbers in different representations.

1. Write these numbers in numerals, in order from smallest to greatest.
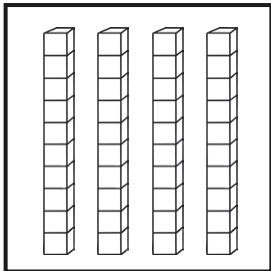
	30 + 20	2 tens and 0 ones	sixty	30

2. Write these numbers in numerals, in order from greatest to smallest.
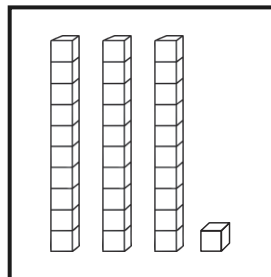
19	2 tens and 1 one		20 + 10	twenty

3. Amma has ordered these numbers from greatest to smallest. Is she correct? Explain your answer.

50 + 10	5 tens and 5 ones	51	forty-nine	
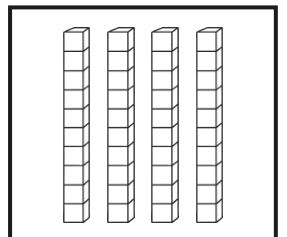
_____

_____

_____

Ordering Numbers Represented Differently

4. Amma has ordered these numbers from smallest to greatest. Is she correct? Explain your answer.

| ten | 10 + 10 | 40 | | 5 tens and 0 ones |

_____

_____

_____

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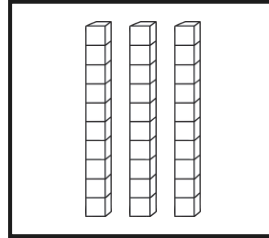
Answers

1. 20, 30, 40, 50, 60

2. 31, 30, 21, 20, 19

3. Yes she is correct, the numbers are in order from greatest to smallest.

4. False, 40 is greater than 30 so 30 should come before 40.

Ordering Numbers Represented Differently

To order numbers in different representations.

1. Write these numbers in numerals, in order from smallest to greatest.
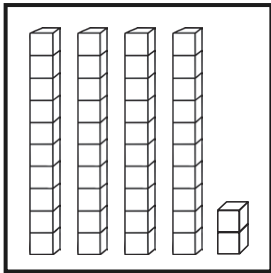
	30 + 20	two tens and five ones	forty-nine	

2. Write these numbers in numerals, in order from greatest to smallest.
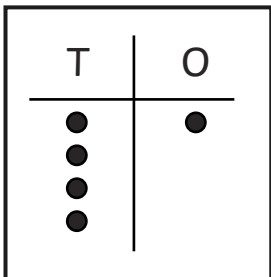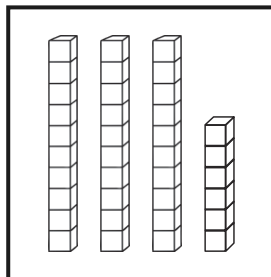
T | O	3 tens and 8 ones		20 + 15	forty-five

3. Amma has ordered these numbers from greatest to smallest. Is she correct? Explain your answer.
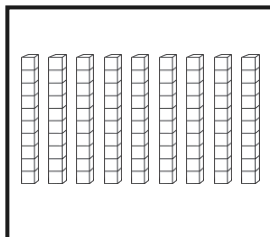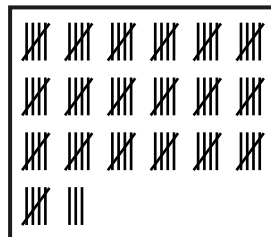
eighty-nine		50 + 40 + 1		9 tens and 9 ones

_____

_____

_____

Ordering Numbers Represented Differently

4. Amma has ordered these numbers from smallest to greatest. True or false?
   Explain your answer.

one	10 + 1		40 ? 1	9 tens and 1 one

_____

_____

_____

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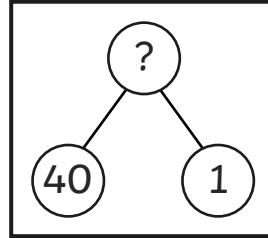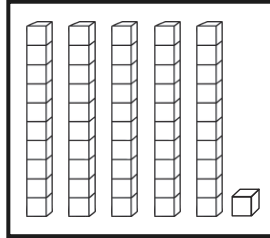
Answers

1. 25, 30, 42, 49, 50

2. 45, 41, 38, 36, 35

3. No, these numbers have been ordered from smallest to greatest.

4. False, 41 is smaller than 51 so these two numbers should be swapped around.

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Ordering Numbers Represented Differently

To order numbers in different representations.

1. Write these numbers in numerals, in order from smallest to greatest.

	30 + 18	10 10 10 10 10 10 1 1 1 1 1 1	5 tens and 7 ones	T | O
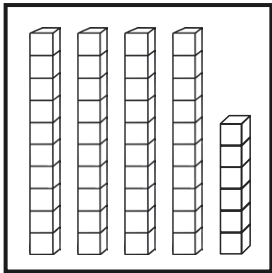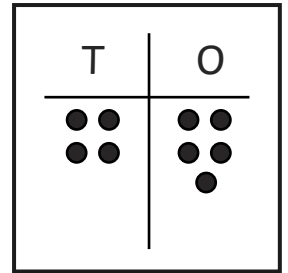
2. Write these numbers in numerals, in order from greatest to smallest.
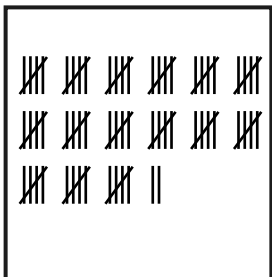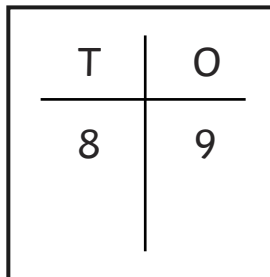
|||| |||| |||| |||	8 tens and 7 ones	T | O 8 | 9	60 + 20 + 8	
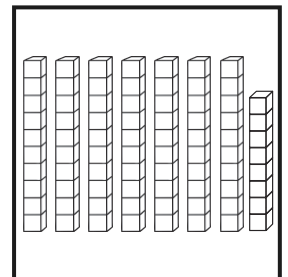
3. How has Amma ordered these numbers?
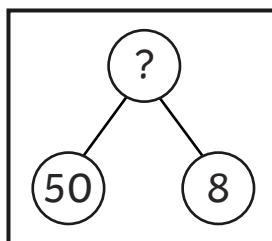
50 + 25	? 50 8	5 tens and 5 ones	twenty-nine	
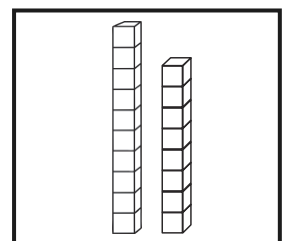
_____

_____

_____

Ordering Numbers Represented Differently

4. Amma has ordered these numbers from greatest to smallest. True or false?
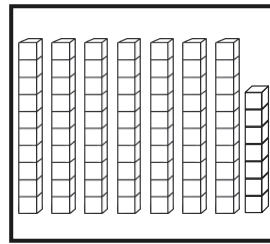
one hundred	80 + 19	91		6 tens and 9 ones

_____

_____

_____

5. Create your own sequence of numbers in different representations, ordered from smallest to greatest.

6. Create your own sequence of numbers in different representations, ordered from greatest to smallest.

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Answers

1. 45, 46, 48, 57, 66

2. 89, 88, 87, 78, 77

3. These numbers have been ordered from greatest to smallest.

4. True. They are ordered from greatest to smallest: 100, 99, 91, 77, 69.

5. Multiple answers possible.

6. Multiple answers possible.

Partitioning Numbers

To partition two-digit numbers in different ways.

1. How many different ways can you partition the following numbers?

Number	Method 1	Method 2	Method 3
33			
46			
68			

2. Can you show how you've partitioned these numbers on a number line or bar model?

Example:

+30   +30   +1 +1

0   62

62			
30	30	1	1

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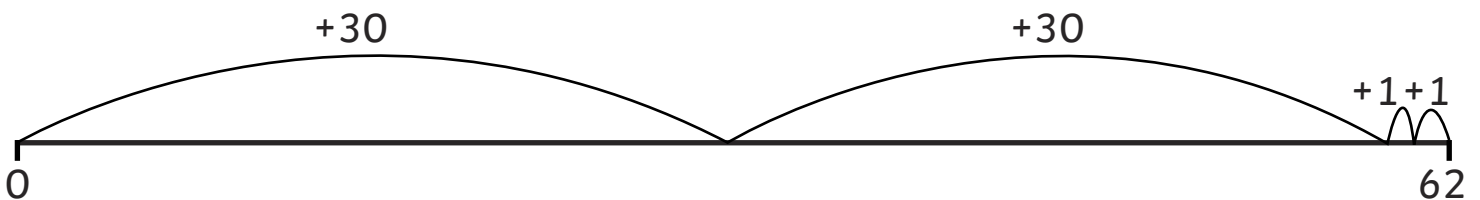
Partitioning Numbers

33

```
0                                              46
```

```
0                                              68
```

Partitioning Numbers **Answers**

1. **Multiple answers possible, for example:**

Number	Method 1	Method 2	Method 3
33	**20 + 13**	**15 + 15 + 3**	**31 + 2**
46	**20 + 20 + 6**	**10 + 36**	**15 + 30 + 1**
68	**30 + 30 + 8**	**20 + 20 + 20 + 4 + 4**	**62 + 6**

2. **Representations to match answers from question 1.**

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Partitioning Numbers

To partition two-digit numbers in different ways.

1. How many different ways can you partition the following numbers?

Number	Method 1	Method 2	Method 3	Method 4
41				
54				
77				
82				

2. Can you show how you've partitioned these numbers on a number line or bar model?

Example:

+30   +30   +1+1

0   62

62			
30	30	1	1

Partitioning Numbers

```
0                                          41
```

41

```
0                                          54
```

54

```
0                                          77
```
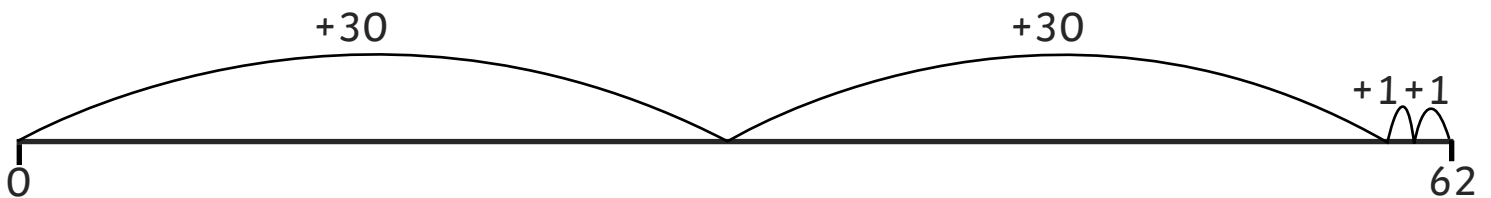
77

Partitioning Numbers

3. **SolveIt!**

Sam has partitioned the number 88. Is she correct? Explain your answer.
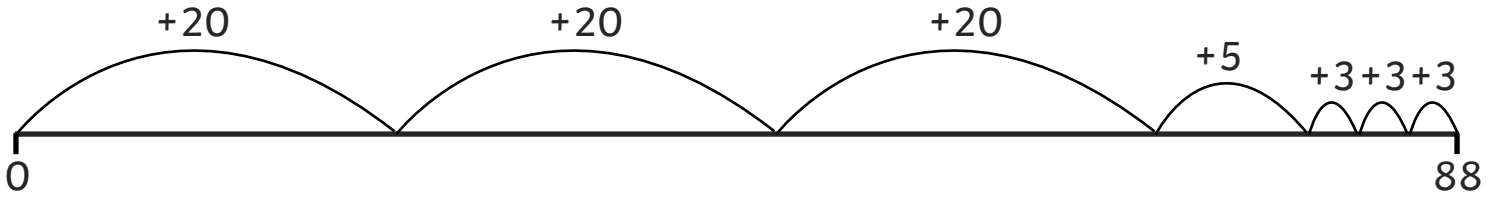
```
   +20          +20          +20        +5    +3+3+3
 ⌢⌢⌢⌢⌢      ⌢⌢⌢⌢⌢      ⌢⌢⌢⌢⌢    ⌢⌢   ⌢⌢⌢
├─────────────────────────────────────────────┤
0                                              88
```

_____

_____

_____

_____

_____

Partitioning Numbers **Answers**

1. **Multiple answers possible, for example:**

Number	Method 1	Method 2	Method 3	Method 4
41	**20 + 20 + 1**	**39 + 2**	**10 + 30 + 1**	**22 + 19**
54	**25 + 25 + 4**	**51 + 3**	**10 + 40 + 4**	**37 + 17**
77	**35 + 35 + 7**	**72 + 5**	**10 + 60 + 7**	**33 + 44**
82	**40 + 40 + 2**	**78 + 4**	**10 + 70 + 2**	**16 + 66**

2. **Representations to match answers from question 1.**

3. **Sam is incorrect. She has represented the number 74 on a number line, not 88.**

Partitioning Numbers

To partition two-digit numbers in different ways.

1. How many different ways can you partition the following numbers?

Number	Method 1	Method 2	Method 3	Method 4
63				
97				
123				

2. Can you show how you've partitioned these numbers on a number line or bar model?

Example:

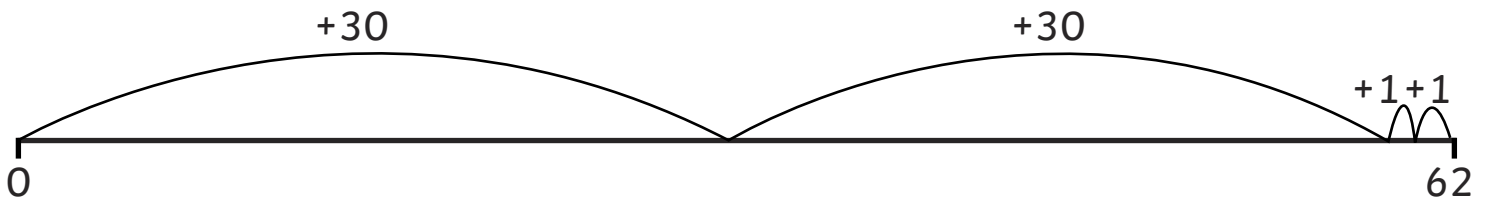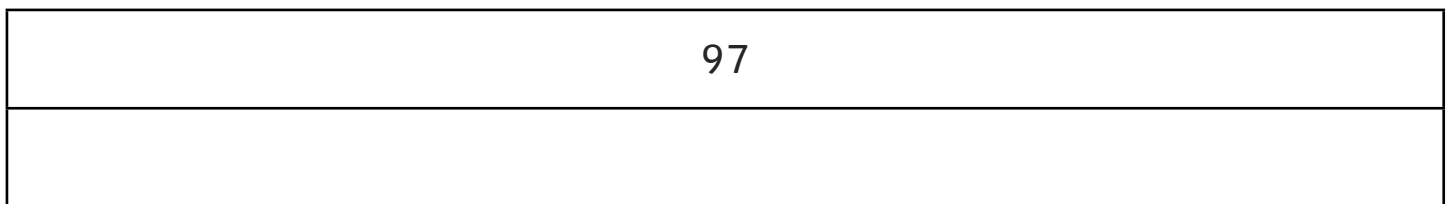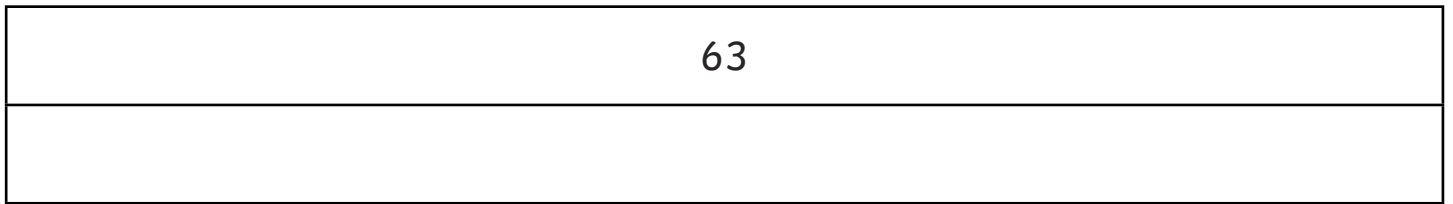+30   +30   +1+1

0   62

62			
30	30	1	1

Partitioning Numbers

0   63

63

0   97

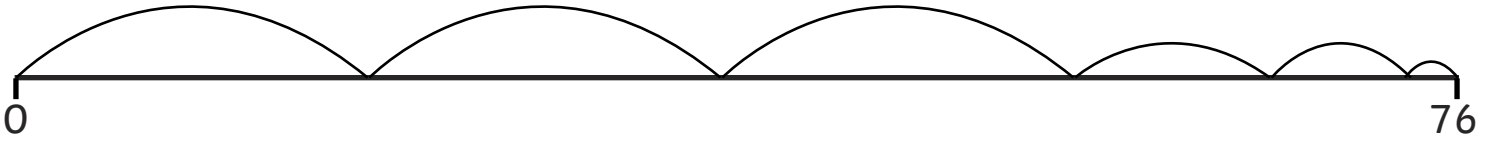| 97 |
|----|
| |

Partitioning Numbers

3. **SolveIt!**

a. Sam has partitioned the number 76. How has she partitioned it? Explain your answer.

0   76

_____

_____

_____

_____

b. Can you write your answer as a number sentence?

_____

c. How else could Sam have partitioned 76? How many ways can you find?

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Partitioning Numbers **Answers**

1. **Multiple answers possible, for example:**

Number	Method 1	Method 2	Method 3	Method 4
63	**30 + 30 + 3**	**61 + 2**	**50 + 10 + 3**	**42 + 21**
97	**45 + 45 + 7**	**80 + 17**	**80 + 10 + 7**	**21 + 76**
123	**50 + 50 + 20 + 3**	**100 + 23**	**120 + 3**	**47 + 76**

2. **Representations to match answers from question 1.**

3. **Multiple answers possible, for example:**

   a. **The three big jumps look the same size so they could be 20 each. Then the next jump is smaller so it could be 10. The fifth jump is smaller again so this could be 5 and the last jump is the smallest so this could be 1.**

   b. **20 + 20 + 20 + 10 + 5 + 1 = 76**

   c. **50 + 16 + 10**
      65 + 5 + 5 + 1
      10 + 51 + 9 + 3 + 3
      42 + 22 + 5 + 2 + 4 + 1

Partitioning Two-Digit Numbers
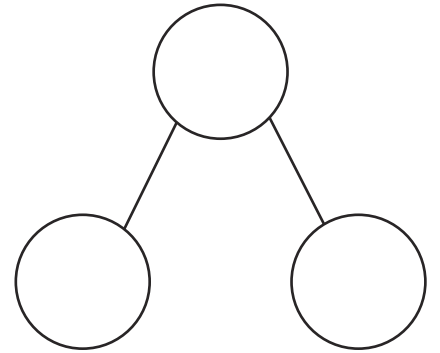
To partition numbers into tens and ones.

Choose a number card. Write the number you chose in the top circle. Make the number out of equipment, then partition it. Write the number of tens and ones underneath.
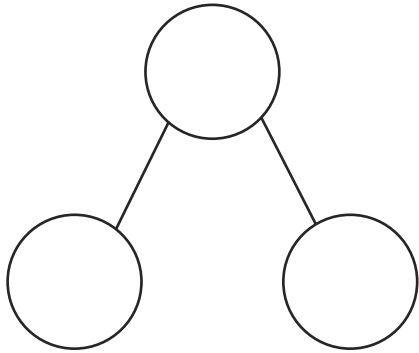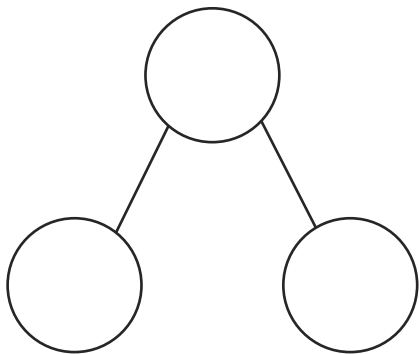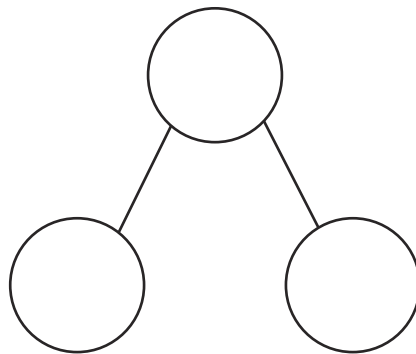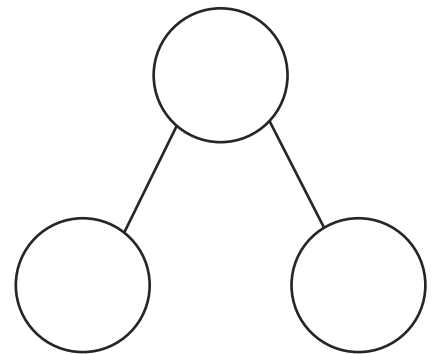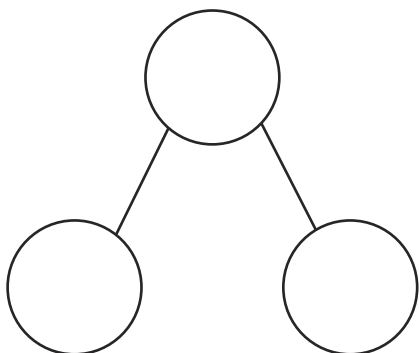
__ tens + __ ones =__   __ ones + __ tens = __   __ tens + __ ones = __
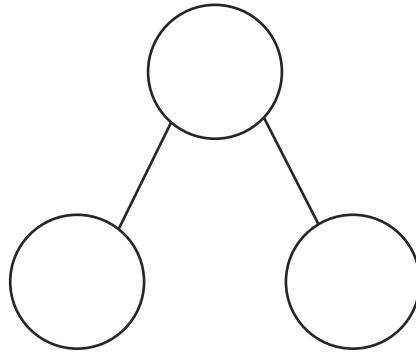
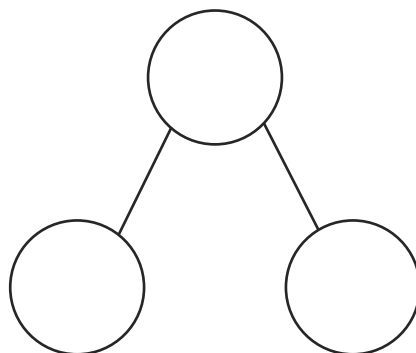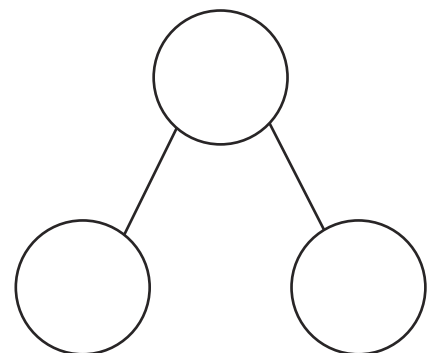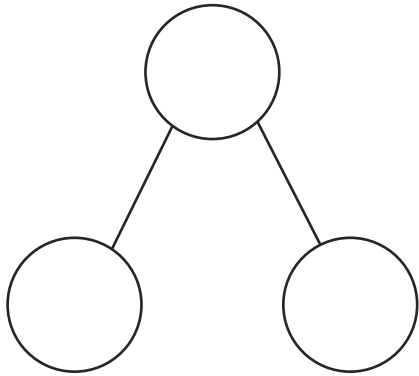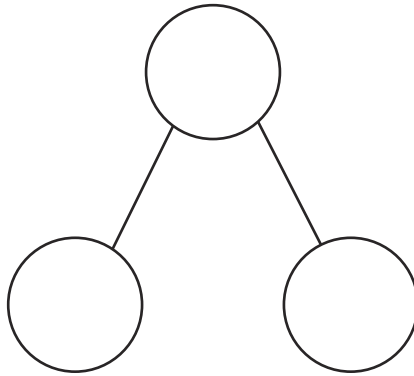__ tens + __ ones = __   __ ones + __ tens = __   __ tens + __ ones = __

__ tens + __ ones = __   __ ones + __ tens = __   __ tens + __ ones = __

Partitioning Two-Digit Numbers
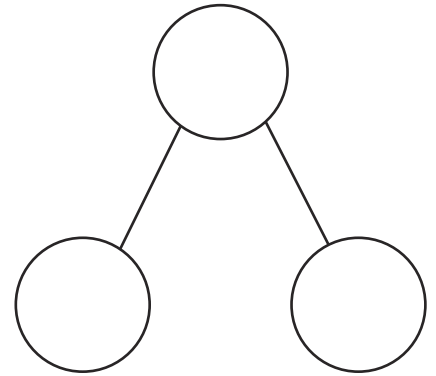
To partition numbers into tens and ones.

Choose a number card. Write the number you chose in the top circle. Can you partition it? Write the expanded form underneath it.
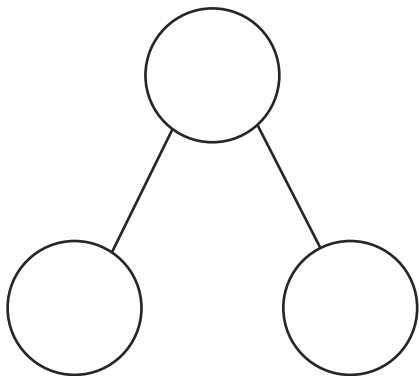
_____ + _____ = _____

_____ + _____ = _____

_____ = _____ + _____

_____ = _____ + _____

_____ + _____ = _____

_____ + _____ = _____

_____ = _____ + _____

_____ = _____ + _____

_____ + _____ = _____

_____ + _____ = _____

_____ = _____ + _____

_____ = _____ + _____

_____ + _____ = _____

_____ + _____ = _____

_____ = _____ + _____

_____ = _____ + _____

_____ + _____ = _____

_____ + _____ = _____

_____ = _____ + _____

_____ = _____ + _____

_____ + _____ = _____

_____ + _____ = _____

_____ = _____ + _____

_____ = _____ + _____

Partitioning Two-Digit Numbers

_____ + _____ = _____   _____ + _____ = _____   _____ + _____ = _____

_____ + _____ = _____   _____ + _____ = _____   _____ + _____ = _____

_____ = _____ + _____   _____ = _____ + _____   _____ = _____ + _____

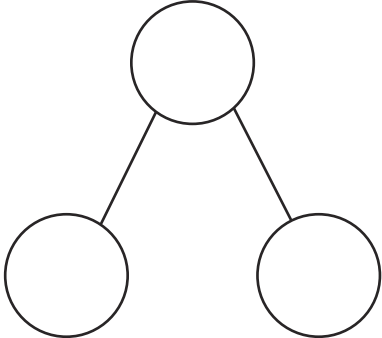_____ = _____ + _____   _____ = _____ + _____   _____ = _____ + _____
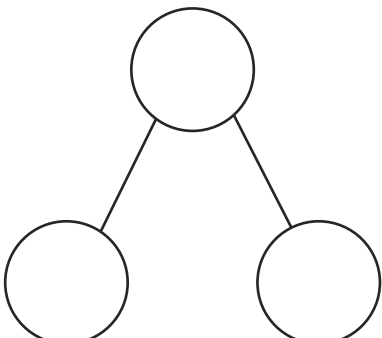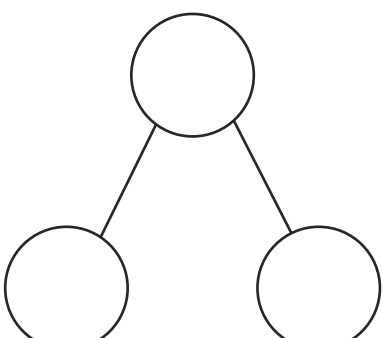
Partitioning Two-Digit Numbers
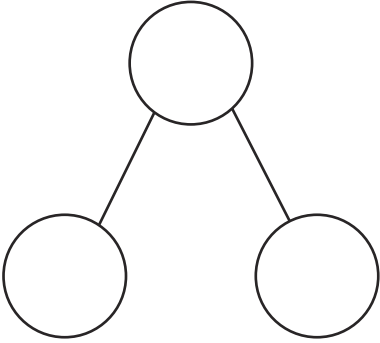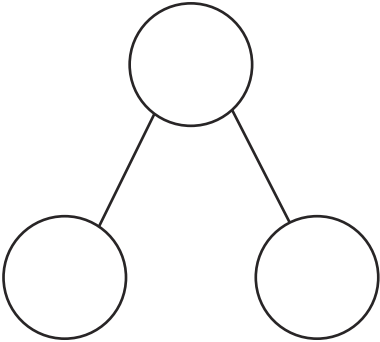
To partition numbers into tens and ones.

Choose a number card. Write the number in the table. Write the number in the part-whole diagram and place value chart, then write the related equations underling the expanded form. The first one has been done for you.

Number	Part-Whole Diagram	Place Value Chart	Represent as Equations
86		Tens: 8, Ones: 6	80 + 6 = 86 6 + 80 = 86 86 = 80 + 6 86 = 6 + 80 86 - 6 = 80 86 - 80 = 6 80 = 86 - 6 6 = 86 - 80
		Tens, Ones	

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Partitioning Two-Digit Numbers

Number	Part-Whole Diagram	Place Value Chart	Represent as Equations
		Tens | Ones	
		Tens | Ones	
		Tens | Ones	

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Partitioning Two-Digit Numbers

Number	Part-Whole Diagram	Place Value Chart	Represent as Equations
		Tens | Ones	_____ _____ _____ _____ _____ _____ _____ _____
		Tens | Ones	_____ _____ _____ _____ _____ _____ _____ _____

0	1	2
3	4	5
6	7	8
9	10	11
12	13	14

15	16	17
18	19	20
21	22	23
24	25	26
27	28	29

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30	31	32
33	34	35
36	37	38
39	40	41
42	43	44

45	46	47
48	49	50
51	52	53
54	55	56
57	58	59

60	**61**	**62**
63	**64**	**65**
66	**67**	**68**
69	**70**	**71**
71	**72**	**73**

74	75	76
77	78	79
80	81	82
83	84	85
86	87	88
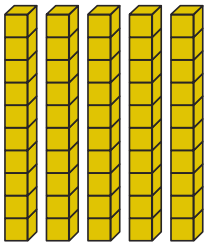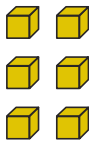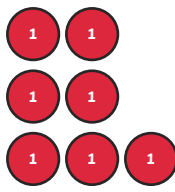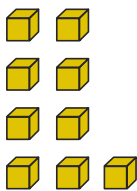
89	90	91
92	93	94
95	96	97
98	99	100

Tens and Ones
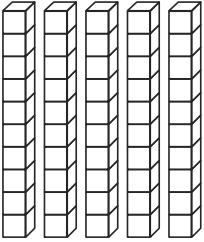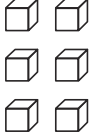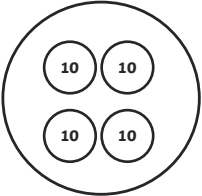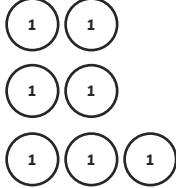
To say what each digit in a two-digit number represents.

Complete the table. Use resources to help you.

Number	Value of Tens	Value of Ones
56		
47		
38		
29		
16		

Tens and Ones **Answers**
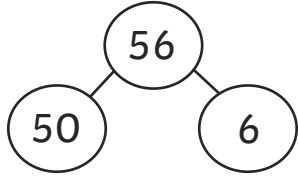
Number	Value of Tens	Value of Ones
56		
47		
38		
29		
16	**Any representations that shows 10 (1 ten)**	**Any representations that shows 6 (6 ones)**

Tens and Ones
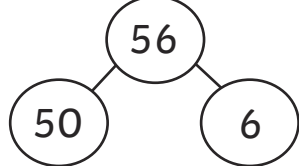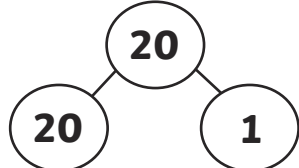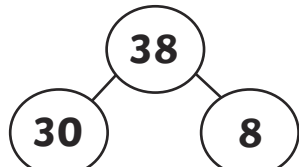
To say what each digit in a two-digit number represents.
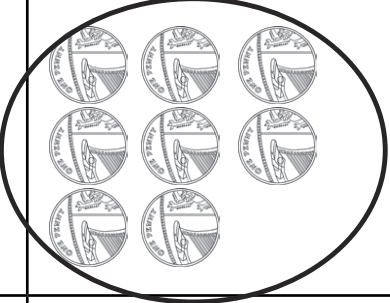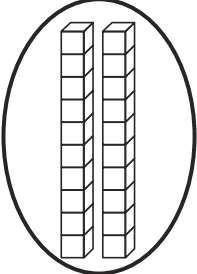
Complete the table. Use resources to help you.

Number	Value of Tens	Value of Ones	Part-Whole Model
56	50	6	56 / 50 6
21			
38			
72			
16			
59			
73			

Tens and Ones **Answers**

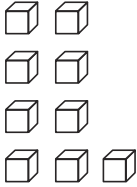| Number	Value of Tens	Value of Ones	Part-Whole Model
56	50	6	56 → 50, 6
21	**20**	**1**	20 → 20, 1
38	**30**	**8**	38 → 30, 8
72	**70**	**2**	72 → 70, 2
16	**10**	**6**	16 → 10, 6
59	**50**	**9**	59 → 50, 9
73	**70**	**3**	73 → 70, 3

Tens and Ones

To say what each digit in a two-digit number represents.

Complete the table. Use resources to help you.

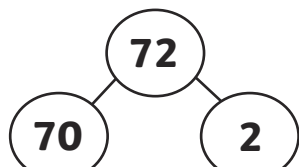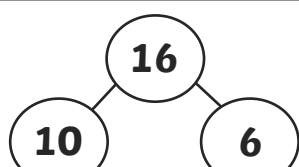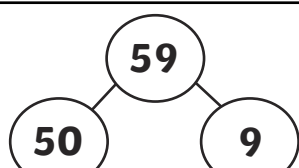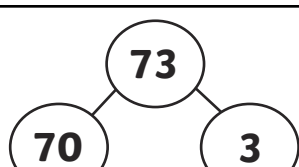| Number	Value of Tens	Value of Ones	Part-Whole Model
56	50	6	56 / 50 \ 6
	20	7	
			42 / 40 \ ○
61			
	70		
			○ / 50 \ 1
33			

Tens and Ones **Answers**

Number	Value of Tens	Value of Ones	Part-Whole Model
56	50	6	56 / 50 \ 6
27	20	7	**27** / **20** \ **7**
42	**40**	**2**	42 / 40 \ 2
61	**60**	1	**61** / **60** \ **1**
70, 71, 72, 73, 74,75, 76, 77, 78, 79	70	**Ones digit to match their number.**	**A part-whole model to match their number that includes 70 as a part.**
51	**50**	1	**51** / 50 \ 1
33	**30**	3	**33** / **30** \ **3**