



Operations with Number



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Series B – Operations with Number

Contents

Topic 1 – Number bonds up to 10 (pp. 1–13)	Date completed			
• 5 (five)	/ _ /			
• 6 (six)				
• 7 (seven)				
• 8 (eight)				
• 9 (nine)				
• 10 (ten)				
Topic 2 – Addition to 10 (pp. 14–26)				
counting on				
 using number lines 				
• turnarounds				
 adding using number bonds 				
word problems				
Topic 3 – Addition to 20 (pp. 27–46)				
 my addition chart 	/ /			
counting on	/ /			
 missing number problems 	/ _/			
 doubles 				
 making 10 	(/ /)			
 adding teen numbers 	/ /			
• game	/ / /			
word problems				
 turnarounds 	/ /			
Topic 4 – Subtraction within 10 (pp. 47–59)				
crossing out	/ _ / _)			
 counting back 				
• find the difference				
 subtracting using number bonds 				
word problems				

Series B – Operations with Number

Contents

Topic 5 – Subtraction within 20 (pp. 60–69)	Date completed								
crossing out									
 counting back 									
word problems									
• doubles									
 relating addition and subtraction 									
e explore									
Topic 6 – Addition and subtraction (pp. 70–88)									
fact families	/								
• tens									
 counting in tens and ones 									
 counting on 20–50 									
• counting back 20–50									
e explore									
• explore									
• word problems									
Topic 7 – Multiplication (pp. 89–98)									
• equal groups									
 groups and arrays 									
word problems									
• meaning of × symbol									
• explore									
Topic 8 – Division (pp. 99–103)									
 sharing 	/								
 grouping 	- / /								
Series Author:									
Rachel Flenley									
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Number bonds up to 10 – 5 (five)

We call the pairs of numbers that make a particular total **number bonds**. Here we are learning about number bonds to 5.



1 Write down one addition and one subtraction sentence for each picture.







Number bonds up to 10 – 5 (five)

1 Write down one addition and one subtraction sentence for each picture.





Number bonds up to 10 – 5 (five)



1 Write the missing number and complete the addition sentence.



2 Write the missing number and complete the subtraction sentence.







Number bonds up to 10 – 6 (six)

Number bonds to 6 are all pairs of numbers that add together to make 6. Knowing our number bonds helps us to solve number problems.

1 Use the pattern to complete the addition and subtraction number sentences.



2 Complete these part-whole models.





Number bonds up to 10 – 7 (seven)

Number bonds to 7 are all pairs of numbers that add together to make 7. Knowing our number bonds helps us to solve number problems.

1 Use the pattern to complete the addition and subtraction number sentences.



2 Complete these part-whole models.





Number bonds up to 10 – 8 (eight)

Number bonds to 8 are all pairs of numbers that add together to make 8. Knowing our number bonds helps us to solve number problems.

1 Use the pattern to complete the addition and subtraction number sentences.



2 Complete these part-whole models.





Number bonds up to 10 – 9 (nine)

Number bonds to 9 are all pairs of numbers that add together to make 9. Knowing our number bonds helps us to solve number problems.

1 Colour the counters to make number bonds. Write a number sentence for each row.



2 Complete these part-whole models 9 9 9 9 9 8 3 7 9 4



Number bonds to 10 are all pairs of numbers that add together to make 10. Knowing our number bonds helps us to solve number problems

1 Colour the counters to make number bonds. Write a number sentence for each row.



2 Complete these part-whole models 10 10 10 10 10 105 1 3 8

B D SERIES TOPIC

8

Number bonds to 10 are all the pairs of numbers that when added together make 10. There are 10 pegs altogether on the coat hanger. There is 1 peg on this side. 1 + 9 = 10 < How many pegs are there altogether?

1 Write down one addition and one subtraction sentence for each picture.





1 Write down one addition and one subtraction sentence for each picture.





1 Find the pair to make 10.



2 Find the missing number to make 10 and write the addition or subtraction sentences for the diagram.





1 Bessie Baker baked lots of and made trays of 10. Marvin Muncher helped himself to the trays! Use a strategy of your choice to find how many and Marvin stole from each tray. Write the subtraction number fact.







Knowing the addition facts is really handy. It helps us to solve number problems.

1 Practise your addition combinations to 10.



2 You will need 6 different coloured pencils for this activity. Colour match the balloons that add to ten.







1 Count on and finish the number facts.





We can solve missing number problems by counting on. Look at this problem.

We know that we have 3. We know that we need to get to 7. So, we start at 3 and count on until we get to 7.

We added 4 more to get to 7.



1 Count on and finish the number facts.



SERIES TOPIC



1 Count on. Write the number fact.





1 Draw the extra carriages to match the problems. Complete the facts.



2 Draw the flowers and finish the facts.





Addition to 10 – using number lines



Hop along the number line and finish the number fact. 1



2 The hops are on the line. Write the number fact to match.



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Addition to 10 – turnarounds



1 Use turnarounds to solve these. Write the matching facts.







Addition to 10 – adding using number bonds

Now that we've learnt our number bonds up to 10, we can use them to solve number problems.

Look at this problem.

How many animals are there altogether?



1 Fill in the missing numbers.





Addition to 10 – adding using number bonds

1 Complete the number sentences.



2 If you know that 7 and 3 is 10, how could you work out what 8 + 3 is?

21

1 What are some words or signs we use when we add or talk about adding?





TOPIC

1 Draw the objects and write the missing numbers.



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SERIES TOPIC

1 Draw pictures and then write the fact.





24

Sometimes we have to solve problems when we know the answer but we don't know all of the problem.

Noah had **4** cars.

His gran gave him some more so he now has 7 cars.

How many cars did she give him?

We know he had 4 cars.

We know he ends up with 7 cars.

What we don't know is how many cars his gran gave him. One way to find out is to draw or use counters.

We draw 4 cars. Then we draw some more cars to get to 7.





- Draw and finish the fact. 1
 - **a** Zoe had 3 fish. She bought some more and now has 5 fish. How many did she buy?



Lily ate 3 cakes before her party. She ate some more cakes b during her party. By the end of the party she had eaten 9 cakes altogether.

How many more cakes did she eat during the party?

= 9

She ate _____ more cakes during the party.

c Aman had some toy dinosaurs. His dad bought him 5 more. Now he has 10 dinosaurs.

How many dinosaurs did he have to begin with?

$$+ 5 = 10 \qquad \text{He had} \qquad \text{dinosaurs to begin with.}$$

26

Addition to 20 – my addition chart

As you learn your addition facts, ask a grown up to quiz you on them. If you can say the answer straight away, they will put a dot in the answer square.

Colour each square as you master the fact!

+	0	1	2	3	4	5	6	7	8	٩
0	0	1	2	3	4	5	6	7	8	q
1	1	2	З	4	5	6	7	8	q	10
2	2	З	4	5	6	7	8	q	10	11
3	3	4	5	6	7	8	q	10	11	12
4	4	5	6	7	8	q	10	11	12	13
5	5	6	7	8	q	10	11	12	13	14
6	6	7	8	q	10	11	12	13	14	15
7	7	8	q	10	11	12	13	14	15	16
8	8	q	10	11	12	13	14	15	16	17
٩	q	10	11	12	13	14	15	16	17	18





28



What to do:

Cut out the rocket parts and spread them out.

Your job is to build as many rockets as you can by matching 3 parts.

This rocket is ready for blast-off because 10 + = 13.

Take turns building your rockets. How many can you get ready for blast-off? You will have some parts left over. Check with your teacher if your rockets are ready to go into space.

Once your rockets have been checked, stick them on black paper. Add planets and moons. Don't forget the sun!





10

13





1 Hop along the number line and finish the number fact.



- **2** Show the story on the number line and as a fact.
 - **a** Tahlia had **8** stickers. Her friend gave her **4** more. How many stickers does she have now?



b Mohammed kicked **7** goals on Tuesday and **6** goals on Wednesday. How many goals did he kick altogether?



31

SERIES

TOPIC



1 Count on using the number line. Complete the number sentences.



Remember to start with the biggest numbers!


Addition to 20 – missing number problems



1 Solve these problems. You can draw pictures or use counters to help.



2 The answer is 14. How many different adding facts can you think of? Here is one to get you started.



33

Addition to 20 – doubles

1 Draw the same number of spots on the empty side. Write the number fact to match.



2 Draw the missing legs. Write the number fact to match.



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Addition to 20 - doubles



These twins show us lots of doubles facts. Here are some. 1





Can you find any more? Write them.



Addition to 20 - doubles



What to do:

Cut out the tens frames. Shuffle them and spread them out, face down. Take turns turning 2 frames over at a time. If they are a double and you can say the matching number fact, you keep the pair. Play until all cards are gone.



Spread the cards out face up.

Race against each other to find doubles. Once all the cards are taken, take turns saying your doubles facts.



36

Addition to 20 - doubles

You will need: 🧭 a partner 😞 6 counters each 🚱 2 dice



What to do:

Take turns rolling 1 die. Double the number you roll and say the number fact. Place a counter on the answer. The first person to cover all their numbers blasts-off first!



What to do next:

Roll 2 dice and add the dots. Work out what the **double of the total will be**. You can use counters to help.

Record the number facts you make.

37

Addition to 20 - making 10



1 Finish the facts.



2 Complete the number bonds.





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Addition to 20 - making 10

1 Make 10 to solve these problems then fill in the part-whole model.







Addition to 20 – making 10



Colour more counters to solve these problems. Fill up the left 1 tens frame first.





Operations with Number

Addition to 20 - making 10

1 Colour more counters to solve these.



2 Write the addition facts to match the tens frames.





Addition to 20 – adding teen numbers

When we add ones it can be helpful to split the teen number into tens and ones.



1 Finish the fact. Use cubes to help.

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What to do:

Place both counters on the number 1. Player 1 rolls the dice and adds the number rolled to the number the number their counter is on. Take turns. The winner is the first player to reach 20. You must roll the correct number to land on 20.

1	2	3	4
5	6	7	8
q	10	11	12
13	14	15	16
17	18	19	20





Addition to 20 – word problems

1 Draw pictures and then write the fact.





44

_

+

Addition to 20 – word problems

- **1** Draw pictures and finish the fact.
 - **a** Peter's Pet Shop has 6 puppies. They buy some more. Now they have 14 puppies. How many more did Peter buy?



c Class 1F had 8 apples. Their teacher bought some more. Now they have 17 apples. How many more apples did their teacher buy?





Addition to 20 – turnarounds



What to do:

Decide who will go first. Roll the 2 dice. Decide which number is easiest to start with and add the numbers.

Write the fact on the fact wall. Play together until you have filled all the bricks.





Subtracting within 10 – crossing out

One way to subtract is to take things away or cross them out and count how many are left.



1 Cross out the pictures to match these number facts.



2 Show these picture stories as number facts.





47

Subtraction within 10 – counting back



1 Count back using the number line. Finish the number facts.





SERIES

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Subtraction within 10 – find the difference











Subtraction within 10 – find the difference



1 Draw buttons to show **no difference**.

50

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2 Draw fish in the bowls. Make one bowl have no difference. Make the other bowl have a difference of 2.



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Subtraction within 10 – find the difference



What to do:

Cut out the number cards. Put the grey 10 card face up. Put the others in a pile face down. Each player draws one card. The person whose card has the greatest difference from 10 wins a counter. Play until all the cards are gone. Who has the most counters?





Subtracting within 10 – subtracting using number bonds

Now that we've learnt our number bonds up to 10, we can use them to solve number problems. Look at this problem.

How many animals are left?



1 Fill in the missing numbers.





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Subtracting within 10 – subtracting using number bonds

1 Complete the number sentences using the part-whole model.





1 What are some words or signs we use when we subtract or talk about subtracting?

2 Write the missing numbers.



a Ali had 3 stripy socks. He loses 1.

How many does he have left?

Ali now has _____ socks.



b The shop has 7 shirts. They sell 3 shirts.How many shirts do they have left?



There are _____ shirts left.



1 Write the missing numbers.



a There are _____ cats altogether.

3 cats are black.

How many cats are white?



There are _____ white cats.



b Caty has 8 balloons.

____ of them are white.

How many black ones does she have?



She has _____ black balloons.

55

1 Cross out the objects and write the missing numbers.



56

1 Draw pictures and then write the fact.



a There are 10 coloured balloons. 6 of them are green. The rest are blue.

How many are blue?

10 - 6 =

There are	blue	balloons.
There are	blue	balloons

b Class 1S has 8 balls. 2 of them are tennis balls. The rest are footballs.

How many footballs do they have?

There are _____ footballs.

c There are 7 apples. 5 apples are green. The rest are red.

How many red apples are there?

_ _ _ There are ____ red apples.





What to do:

Cut out the subtraction stories and the number facts. Put the subtraction stories in a pile and turn them face down. Spread out the number facts. Player 1, take a story and find the number fact that matches and solves your story. Tell the story to your partner and show it with counters. Player 2, take your turn. Play until all the stories have been told.



58

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Subtraction within 20 – crossing out

When we add ones it can be helpful to split the teen number into tens and ones. Look at 17 - 6 = ?



1 Finish the facts.



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Subtraction within 20 – crossing out

1 Draw pictures and finish the facts.

a 15 – 3 =



Subtraction within 20 – crossing out

If we try to subtract the ones, we don't have enough ones, so instead we subtract the ones from the ten. Look at 17 - 9 = ?7 - 9 = 87 - 10

1 Finish the facts.



Subtraction within 20 – counting back







Remember! With bigger numbers it can be helpful to look at the tens and the ones separately. Look at this problem. There are 17 cubes. Mrs Green gives 5 cubes to Tom. How many cubes are left? 17 - 5 = ?17 - 5 = 1210 2 There are <u>12</u> cubes left.

- 1 Cross out the objects and solve the problem.
 - **a** There are 19 cubes. Lucy takes 4 away. How many are left?



b There are 16 butterflies. 5 fly away. How many are left?





1 Cross out the objects and solve the problem.

There are 14 balloons. 3 float away. How many are left?



- **2** Draw objects and solve the problem.
 - **a** Lucy has 18 cubes. She gives 6 to Tom. How many does she have left?



Lucy has _____ cubes left.

b Rory has 17 counters. 6 counters are yellow. The rest are red. How many counters are red?



There are _____ red counters.



1 Draw pictures and then write the fact.



SERIES

TOPIC

Subtraction within 20 - doubles

We can use our addition strategies to help us solve subtraction problems. Look at 10 - 5 = ?If we know the doubles fact 5 + 5 = 10 we know that 10 - 5 = 5

1 Cover 1 side of the domino to help solve these subtraction problems.





Subtraction within 20 - relating addition and subtraction



1 Use 2 coloured pencils and colour the boxes to match the addition fact. Write the matching subtraction facts.





+

_

=
Subtraction within 20 - explore



What to do:

Cut out the cards below and place them in a pile face down. Player 1, take a card and roll the die. Using a strategy of your choice, subtract the number on the die from the number on your card. Write the number fact in your maths book.

Player 2, have a turn. Play until you both have 10 facts. Ask your teacher to check your facts. Can you score $\frac{10}{10}$?

15	14	13	12	11		
10	9	8	7	8		
٩	20	11	12	13		
14	16	10	18	10		
		8 9 10 11	12 13 14 15	16 17 18 10 2		



Addition and subtraction are related. They do up and undo each other.

Can you see these number sentences in the picture below?



1 Write four number sentences for each picture.



70

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1 Write four number sentences for each picture.





1 This family only uses the numbers 3, 2 and 5. Give each family member a fact.



2 This family only uses the numbers 4, 2 and 6. Give each family member a fact.







What to do:

Cut out the hexagon house on page 74. Think of 3 numbers you could make a fact family with or ask your teacher for some. Write the numbers in the windows and on the door.

Carefully cut the door so it swings open. Tape the sticky note to the back of the hexagon behind the door. Write the matching fact family on the note so that when you open the door, you see your fact family. Decorate your house.

What to do next:

Stick the classes' houses onto the wall or onto a road made from brown paper. Stand in front of each house and tell a partner what the fact family will be. Open the door and check to see if you are right!



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Addition and subtraction - tens



1 Count in tens down the snake and write the missing numbers.





SERIES TOPIC

Addition and subtraction – tens

22 23

32 33

42 43

52 53

62 63

We can use a 100 square to help us add tens. Moving down one square is the same as counting ten 1s across the hundred square.

34 35 36

44 45

72 73 74 75 76 77

25+26

54 55 56 57

64 65 66 67

46 47

69 70

79 80

91 92 93 94 95 96 97 98 99 100	81	82	83	84	85	86	87	88	89	90
	91	92	93	94	95	96	97	98	99	100

1 Complete these addition sentences using the 100 square.

a

$$10 + 10 =$$
 b
 $10 + 30 =$

 c
 $20 + 10 =$
 d
 $20 + 30 =$

 e
 $30 + 20 =$
 f
 $40 + 10 =$

 g
 $12 + 10 =$
 h
 $18 + 30 =$

 i
 $27 + 10 =$
 j
 $25 + 20 =$

 k
 $21 + 20 =$
 l
 $13 + 30 =$



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Addition and subtraction – tens

We can use a 100 square to help us subtract tens. Moving up one square is the same as counting back ten 1s across the hundred square.



1 Complete these subtraction sentences using the 100 square.



77

SERIES TOPIC

Addition and subtraction – counting in tens and ones

1 Count the numbers of tens and ones. Complete the table and number sentence.







Addition and subtraction – counting on 20–50



1 Count on 1 or 2 to finish these number facts.



2 Count on in tens and ones to finish these number sentences.



3 Fill in the gaps.
 + 1
 + 10
 + 11

 12
 13
 22

 28

 33
 43

 40
 41



Addition and subtraction – counting back 20–50



1 Count back 1 or 2 to finish these number facts.



2 Count back in tens and ones to finish these number sentences.



3 Fill in the gaps.
 -1 -10 -11

 23
 3 3 3 3

 49
 -10 -11 -11

 31
 3 -10 -11

 24
 -10 -11 -11



Addition and subtraction – explore



What to do:

Cut out the number cards below and put them in a pile face down.

Decide if you are playing an adding or subtracting game and if you are going to race against each other or take turns.

Take 2 cards and add or subtract the 2 numbers. If you are subtracting, make sure you start with the bigger number. Record your fact. Use counters to help if you want. Play until you have used all the cards. Ask your teacher to check your facts!

0	1	2	3	4
5	6	7	8	q
10	0	1	2	3
4	5	6	7	8
٩	10	5	6	7



Addition and subtraction – explore



What to do:

Draw dots on the right side to make the dominoes add to 10. Cut out the cards and write the matching fact and its turnaround on the back. Put them in a pile with the dots facing up.

Take turns taking a domino card. Without looking at the back, say the matching fact and turnaround. Check. If you are right, you keep the card! Play until they are all gone.





Addition and subtraction - explore



What to do:

Cut out and choose a game board each. Take turns rolling a die. If you can use the number to complete one of your number facts, write it in. If not, the play moves on. The first person to fill their game board wins.





Addition and subtraction - explore



What to do:

Player 1, put some of the 10 counters in 1 hand and some in the other hand. Put both hands behind your back.

Player 2, point to a hand. Player 1 will show you what's in that hand and your job is to guess how many counters are in **the other hand**.

If you are right, you score a point. Swap roles. The first person to get 5 points, wins.



What to do next:

Too easy? Play the game with 15 or 20 counters.



Addition and subtraction – explore

You will need: 🛵 partners 🙀 a die

a mini packet of coloured sweets or sultanas each

What to do:

Count how many coloured sweets or sultanas are in your packet. Take turns rolling the die. Subtract that number of sweets, then say and write your number fact. If you are right, those sweets are yours to be eaten!



Play until you get to zero. You must

roll the exact number to finish. Who finishes first?

My number facts:



Addition and subtraction - explore

What to do:

Look at the bowling pins. Which pins could you knock down to score 6? Find 2 different ways and record them below. Remember, you can knock down more than 2 pins!



Find 2 different ways to score 7 and 8.

My facts:



86

Addition and subtraction – word problems

Sometimes the tricky part of a word problem is not doing the fact, but working out whether you need to add or subtract. We need to think, 'Does this problem want me to join groups? Then I know I am adding. Am I comparing groups or taking a group away? Then I know I am subtracting.' Looking out for clue words can help too. These are words

like **altogether**, **difference** and **left**. They tell us if we are adding or subtracting.

1 Work out if the problem is asking you to add or subtract and write the number fact to match. Circle the clue words.





Addition and subtraction – word problems

1 Solve:



c Choose a number between 5 and 20. Write it in the box. How many addition and/or subtraction facts can you write that include this number?





1 Are these groups equal? If so, draw =. If not, draw \neq in the boxes.



2 Draw dots on the right side of the dominoes to make them equal.









3 Mmmmmm, sweets. Draw some sweets on the bags. Make sure each bag has the same amount. This means they are equal.







1 How many ...





1 How many ...





- **1** Draw and finish the number facts.
 - **a** Draw 5 faces in each window.



b Draw 2 cats on each mat.



How many cats?





You will need: pencils



What to do:

These children are all turning 5 today.



- Draw the right number of candles on the cakes. a
- How many candles are there altogether? b

What to do next:

How did you work it out? Explain your strategy to a partner.



Multiplication – groups and arrays



1 How many are there?



2 Draw:

- **a** 2 groups of 3 flowers
- **b** 2 rows of 3 flowers



SERIES TOPIC

Multiplication – word problems



What to do:

Work with your partner to find solutions for the following problems. Use counters or draw pictures to help.

a There are 5 boats at sea. Each boat carries 3 sailors. How many sailors are at sea?



 b 1F line up after lunch in pairs. There are 10 sets of pairs.
 How many students in 1F?

c 1F have planted a flower garden. They have planted 5 flowers in each row. There are 15 flowers altogether. How many rows are there?



Multiplication - meaning of × symbol







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What to do:

Cut out the cards and put them in a pile. Take turns taking a card. Make the fact with counters, then write the answer in the box. Ask your partner to check. If it's right, you keep the card. If it's wrong, rub out your answer and put the card on the bottom of the pile. Play until all the cards are gone.





Multiplication - explore



What to do:

You are about to build towers. One of you will roll for the number **of** towers, one of you will roll for the number of cubes **in** the tower. Decide who does what.

Roll both dice, then build the matching towers.

On a sticky note, write the matching fact and put it in front of the towers.

Play until you have created 5 facts.



What to do next:

Take turns building a set of towers. Your partner works out what fact it shows and writes it.



Division – sharing

When we share things into groups evenly, every group has the same number. This means they are **equal**. We call this division. The symbol for division is \div . Here are **6** cupcakes. Here are **3** children. **1** we share the cakes out evenly, every child gets 2 cupcakes. Yum! We call this **'sharing fairly'** because each share is equal. 6 divided by 3 is 2 6 \div 3 = 2

Look at these shares. Are they fair? the fair shares.
X the ones that are not fair.



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99

SERIES TOPIC

Division – sharing





Division – sharing



What to do:

Use counters or draw pictures to solve these sharing problems. Show how you solved the problem.





Division – grouping



1 Circle groups of 2 feet.



Draw 24 eyes. Circle groups of 2.How many ??







What to do:

You are at the zoo. Pretend the lolly sticks are animal legs and work out how many animals could be at the zoo. Use all 24 lolly sticks for each question. Show your solutions.



