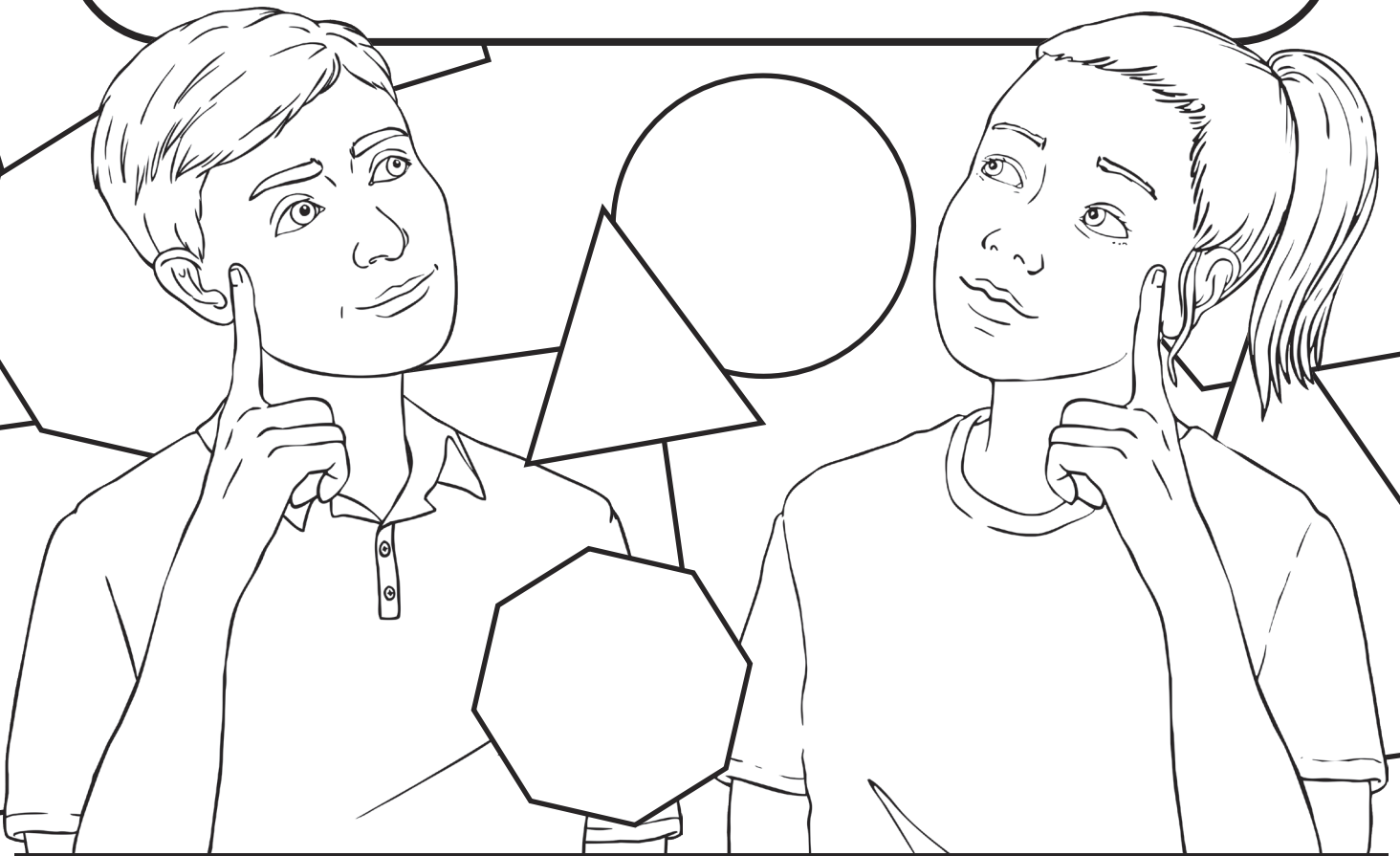




Year 3 Australian Maths Number and Place Value Workbook

Name: _____





Year 3 Australian Maths Number and Place Value Workbook

Australian Curriculum	Worksheet	Page Number	Notes
Investigate the conditions required for a number to be odd or even and identify odd and even numbers (ACMNA051)	Odd and Even Numbers Rule Worksheet	Page 1	
Recognise, model, represent and order numbers to at least 10 000 (ACMNA052)	Place Value to 4 Digits Worksheet Place Value Ordering 4-Digit Numbers Worksheet	Page 2 - 3	
Apply place value to partition, rearrange and regroup numbers to at least 10 000 to assist calculations and solve problems (ACMNA053)	Place Value of Numbers up to 10 000 Worksheet Non-Standard Partitioning Worksheet	Page 4 - 5	
Recognise and explain the connection between addition and subtraction (ACMNA054)	Matching Equivalent Addition and Subtraction Number Sentences	Page 6	



Australian Curriculum	Worksheet	Page Number	Notes
Recall addition facts for single-digit numbers and related subtraction facts to develop increasingly efficient mental strategies for computation (ACMNA055)	Addition and Subtraction Facts Speed Test	Page 7 - 8	
Recall multiplication facts of two, three, five and ten and related division facts (ACMNA056)	2, 3, 5 and 10 Times Tables Missing Numbers Worksheet Mixed Times Table Multiplication Wheels Worksheets	Page 9 - 10	
Represent and solve problems involving multiplication using efficient mental and written strategies and appropriate digital technologies (ACMNA057)	Colour by Multiplication Worksheet	Page 11	
Model and represent unit fractions including $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{3}$, $\frac{1}{5}$ and their multiples to a complete whole (ACMNA058)	Year 3 Stained Glass Fractions Differentiated Worksheets	Page 12	



Australian Curriculum	Worksheet	Page Number	Notes
Represent money values in multiple ways and count the change required for simple transactions to the nearest five cents (ACMNA059)	Calculating Change Worksheets: Australia	Page 13 - 15	
Describe, continue, and create number patterns resulting from performing addition or subtraction (ACMNA060)	Identify the Number Pattern Rule Activity	Page 16	

Odd and Even Number Rules Activity

I can explain what odd and even numbers are.



Here is a collection of numbers. Decide whether they are odd or even and write them under the correct heading in the table.

4 9 7 12 33 54 16
28 15 41 36 20 11 21

Odd	Even

Is there a rule that you can think of for making it easier to identify if a larger number is odd or even? Explain your rule.



Place Value to 4 Digits

Number	Words	Expanded Form	Picture
_____	____ thousands ____ hundreds ____ tens ____ ones	$1000 + 500 + 90 + 7$ $=$ _____	
_____	2 thousands 5 hundreds 7 tens 3 ones	_____ + _____ + _____ + ____ $=$ _____	
1574	____ thousands ____ hundreds ____ tens ____ ones	_____ + _____ + _____ + ____ $=$ _____	
2635	____ thousands ____ hundreds ____ tens ____ ones	_____ + _____ + _____ + ____ $=$ _____	
7354	____ thousands ____ hundreds ____ tens ____ ones	_____ + _____ + _____ + ____ $=$ _____	
_____	____ thousands ____ hundreds ____ tens ____ ones	$2000 + 600 + 40 + 3$ $=$ _____	
_____	5 thousands 5 hundreds 5 tens 5 ones	_____ + _____ + _____ + ____ $=$ _____	

Ordering 4-Digit Numbers

2156	1211	5369	1456	5786	2191	6819	1126	9105	8888
2415	2399	1365	9499	5876	9091	5010	6151	8527	3013

Compare and order the numbers above, from smallest to largest.

A vertical arrow pointing upwards, indicating the direction of increasing value. To the right of the arrow is a vertical column of 20 empty rectangular boxes for writing the ordered numbers.

Largest



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Smallest

Place Value of Numbers up to 10 000

I can use partitioning to show my understanding of place value of three, four and five-digit numbers. (ACMNA053)

Did you know that 3000 is made up of:

- 3 Thousands
- 30 Hundreds
- 300 Tens
- 3000 Ones



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Write these numbers to show your understanding of place value.

1. 900 = _____ Thousands or _____ Hundreds or _____ Tens or _____ Ones
2. 1000 = _____ Thousands or _____ Hundreds or _____ Tens or _____ Ones
3. 6000 = _____ Thousands or _____ Hundreds or _____ Tens or _____ Ones
4. 400 = _____ Thousands or _____ Hundreds or _____ Tens or _____ Ones
5. 8000 = _____ Thousands or _____ Hundreds or _____ Tens or _____ Ones
6. 2000 = _____ Thousands or _____ Hundreds or _____ Tens or _____ Ones
7. 7000 = _____ Thousands or _____ Hundreds or _____ Tens or _____ Ones
8. 9000 = _____ Thousands or _____ Hundreds or _____ Tens or _____ Ones
9. 10 000 = _____ Thousands or _____ Hundreds or _____ Tens or _____ Ones
10. 3000 = _____ Thousands or _____ Hundreds or _____ Tens or _____ Ones
11. 5000 = _____ Thousands or _____ Hundreds or _____ Tens or _____ Ones

Non-Standard Partitioning

When we partition numbers, we separate them into hundreds, tens and ones. Using the numbers below, partition them in a standard and a non-standard form. The first one has been done for you.



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127	
Standard	Non-Standard
$100 + 20 + 7$	$90 + 37$ $120 + 7$

291	
Standard	Non-Standard

562	
Standard	Non-Standard

462	
Standard	Non-Standard

711	
Standard	Non-Standard

923	
Standard	Non-Standard

Matching Equivalent Addition and Subtraction Number Sentences

I can correctly match equivalent addition and subtraction number sentences. (ACMNA054)



Draw a line to correctly connect the equivalent addition and subtraction number sentences.

$341 - 92$

$845 - 77$

$989 - 356$

$824 - 169$

$800 - 342$

$675 - 307$

$835 - 90$

$918 - 157$

$1000 - 452$

$1438 - 106$

$237 + 221$

$282 + 351$

$73 + 176$

$250 + 118$

$550 + 782$

$287 + 261$

$350 + 418$

$436 + 219$

$428 + 317$

$624 + 137$



Addition and Subtraction Facts to 50

See how long it takes you to complete all of these or give yourself a set amount of time (say 5 mins) and see how many you can do.



$17 + 2 =$	$24 - 5 =$	$10 + 20 =$	$15 + 3 =$	$21 - 9 =$
$19 - 5 =$	$16 - 12 =$	$10 + 26 =$	$1 + 13 =$	$23 - 3 =$
$15 - 15 =$	$19 - 5 =$	$11 + 31 =$	$17 + 3 =$	$12 + 22 =$
$1 + 44 =$	$29 - 11 =$	$22 + 18 =$	$36 - 6 =$	$31 - 14 =$
$20 + 30 =$	$21 + 16 =$	$20 + 16 =$	$36 - 4 =$	$42 - 6 =$
$25 - 7 =$	$22 + 9 =$	$35 - 9 =$	$11 + 31 =$	$32 + 16 =$
$32 - 12 =$	$36 + 11 =$	$38 - 2 =$	$33 + 1 =$	$37 - 5 =$
$40 - 5 =$	$28 + 9 =$	$1 + 49 =$	$35 + 8 =$	$23 - 15 =$
$34 - 11 =$	$17 + 19 =$	$30 - 19 =$	$38 + 4 =$	$32 - 16 =$
$42 - 7 =$	$44 + 5 =$	$48 - 9 =$	$50 - 0 =$	$3 + 38 =$



Times Table Hunt: 2x, 3x, 5x and 10x Table

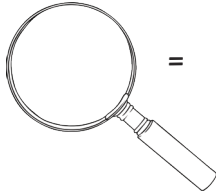
The detective is on the hunt for some missing numbers from the 2x, 3x, 5x and 10x tables. Can you help him find them?

1. $2 \times 3 =$



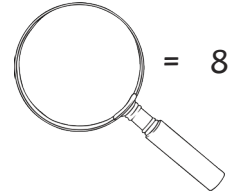
7. $7 \times 3 =$

2. $7 \times$



$= 35$

8. $8 \times$

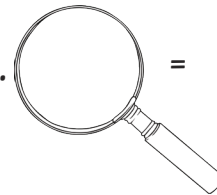


$= 80$

3. $16 = 8 \times$



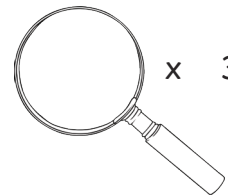
9. $= 7 \times 5$



4. $4 \times 5 =$



10. $36 =$

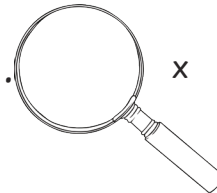


$\times 3$

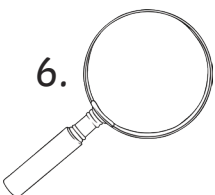
5. $3 \times 10 =$



11. $\times 2 = 18$



6. $= 11 \times 6$



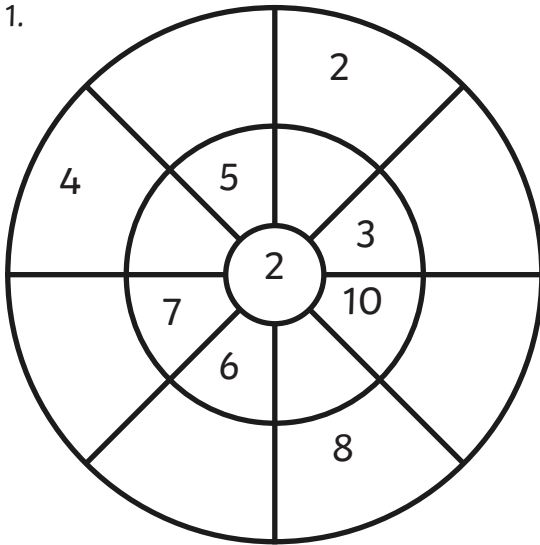
12. $0 \times 5 =$



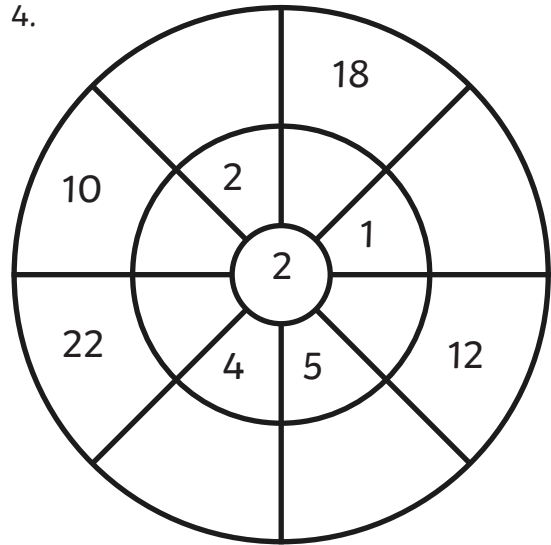


Multiplication Wheels

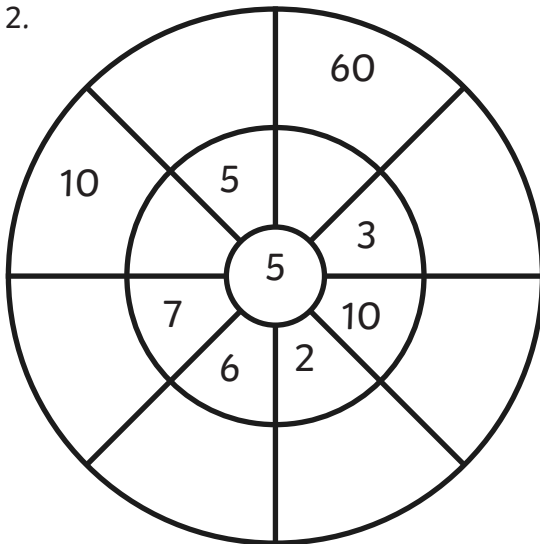
1.



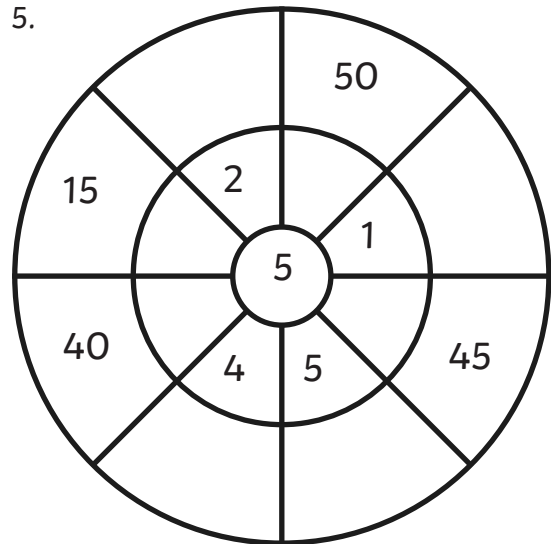
4.



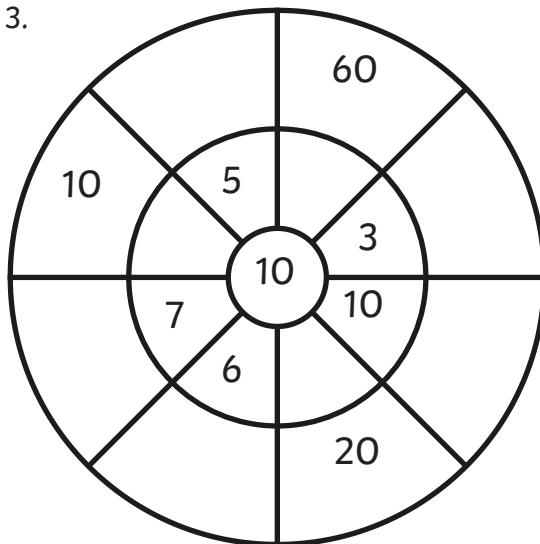
2.



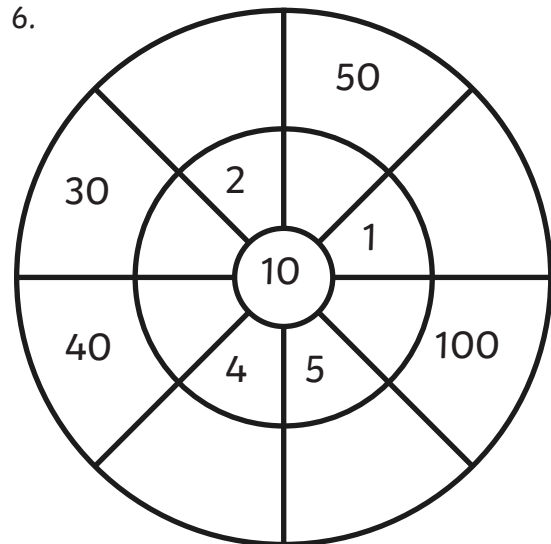
5.



3.



6.



Colour by Multiplication

Do the multiplication calculation and colour the shape in the correct colour



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0-10

light blue

11-20

purple

21-30

pink

31-40

yellow

41-50

green

51-60

orange

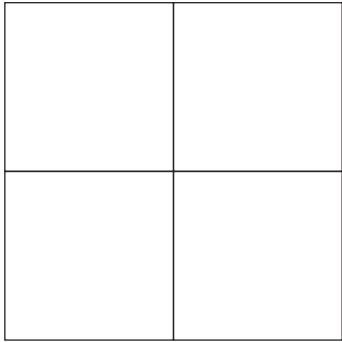
61-70

dark blue



Stained Glass Fractions

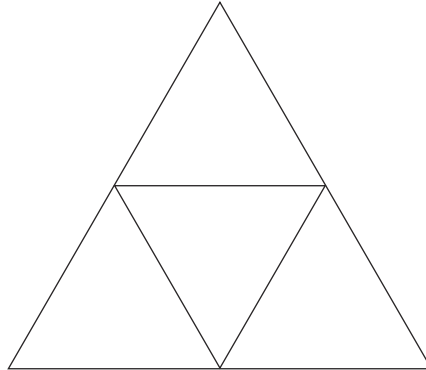
Colour the windows to match the fractions listed.



$\frac{1}{2}$: red

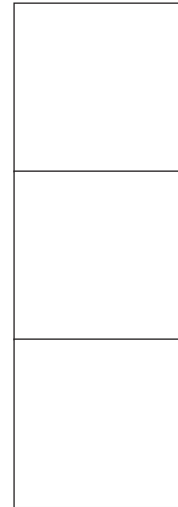
$\frac{1}{4}$: blue

$\frac{1}{4}$: yellow



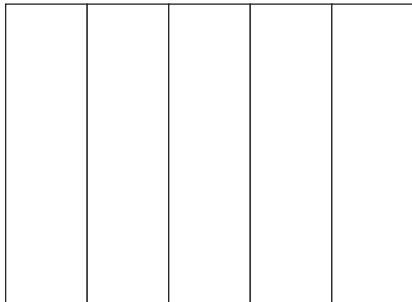
$\frac{3}{4}$: blue

$\frac{1}{4}$: yellow



$\frac{2}{3}$: green

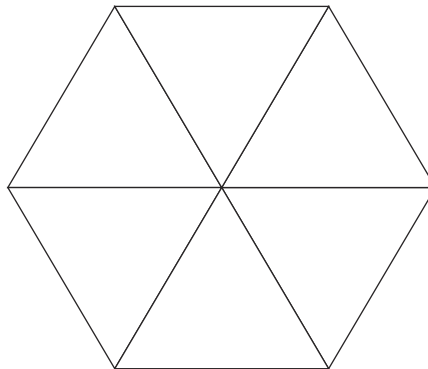
$\frac{1}{3}$: red



$\frac{1}{5}$: red

$\frac{2}{5}$: green

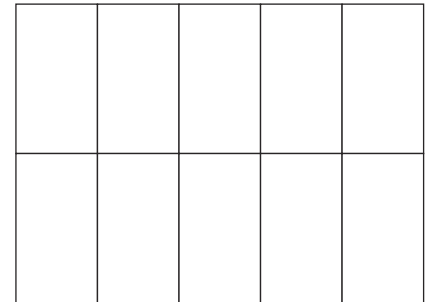
$\frac{2}{5}$: blue



$\frac{1}{6}$: green

$\frac{2}{6}$: yellow

$\frac{3}{6}$: blue



$\frac{1}{10}$: blue

$\frac{2}{10}$: yellow

$\frac{3}{10}$: red

$\frac{4}{10}$: green

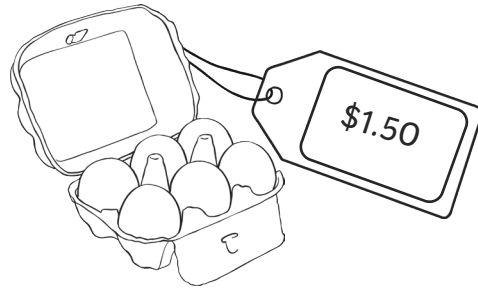


Calculating Change

1. Draw the coins that you would receive as change if you bought these items with the money shown.



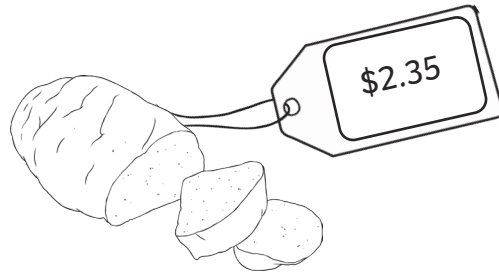
\$2



Change:



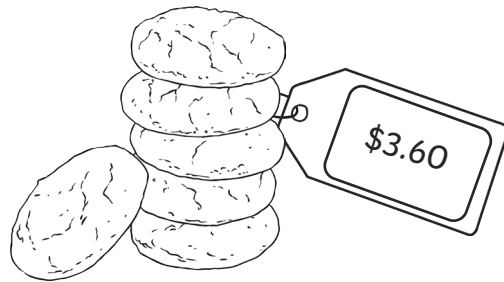
\$2.50



Change:



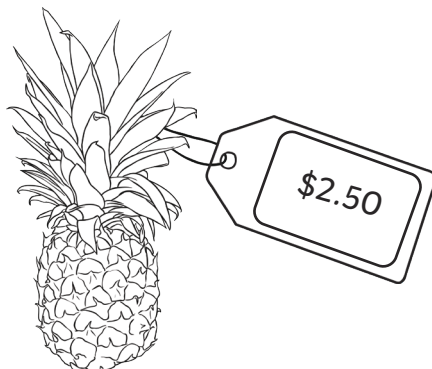
\$5



Change:



\$2.70

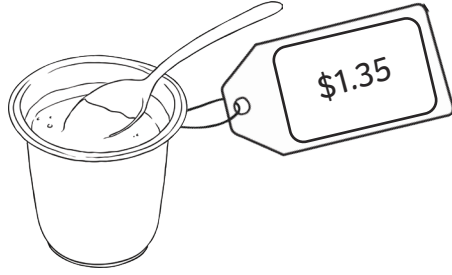


Change:

Calculating Change



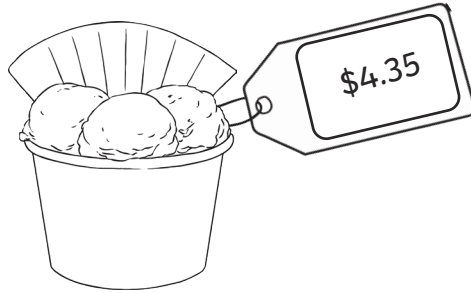
\$2



Change:



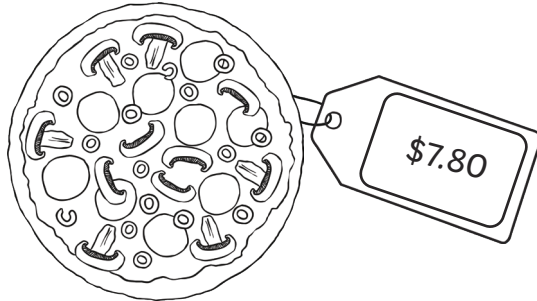
\$5



Change:



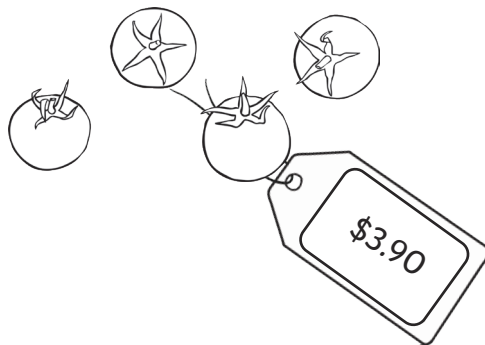
\$9



Change:



\$10



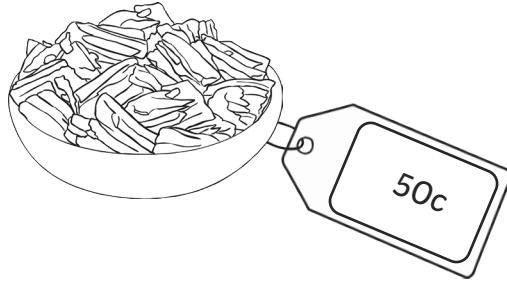
Change:

Calculating Change

1. Draw the coins and write the amount that you would receive as change if you bought these items with the money shown.



60c

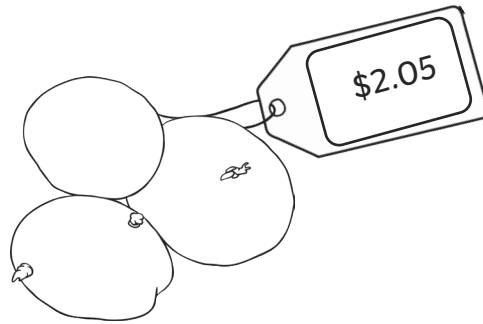


Change:

\$ _____



\$2.20

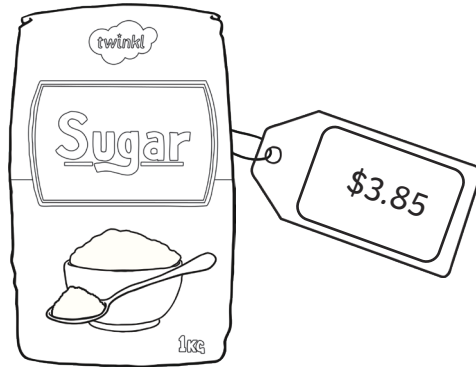


Change:

\$ _____



\$4

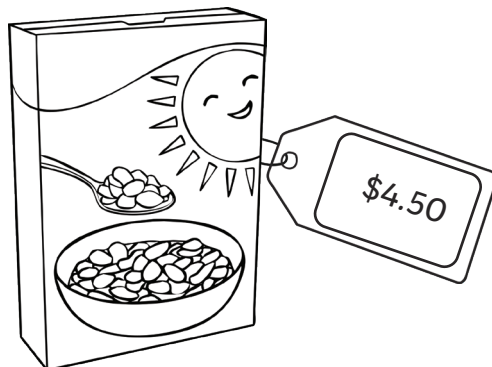


Change:

\$ _____



\$5



Change:

\$ _____

Identifying Number Pattern Rules

Work out what the number pattern rule is for each of these patterns. The pattern might be increasing (addition +) or decreasing (subtraction -).

Use the rule to help you complete the number patterns.



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9	___	19	24	___	___
---	-----	----	----	-----	-----

Rule: _____

48	44	___	___	32	___
----	----	-----	-----	----	-----

Rule: _____

99	90	___	72	___	___
----	----	-----	----	-----	-----

Rule: _____

110	130	___	170	___	___
-----	-----	-----	-----	-----	-----

Rule: _____

107	97	___	___	67	___
-----	----	-----	-----	----	-----

Rule: _____

36	42	___	54	___	___
----	----	-----	----	-----	-----

Rule: _____

24	36	48	___	___	___
----	----	----	-----	-----	-----

Rule: _____

235	233	___	229	___	___
-----	-----	-----	-----	-----	-----

Rule: _____

