LCB EDUCATION

SAMPLE WORKSHEETS

Maths

AQA Unit Award Scheme Mapped

This pack contains worksheets from all the different levels.

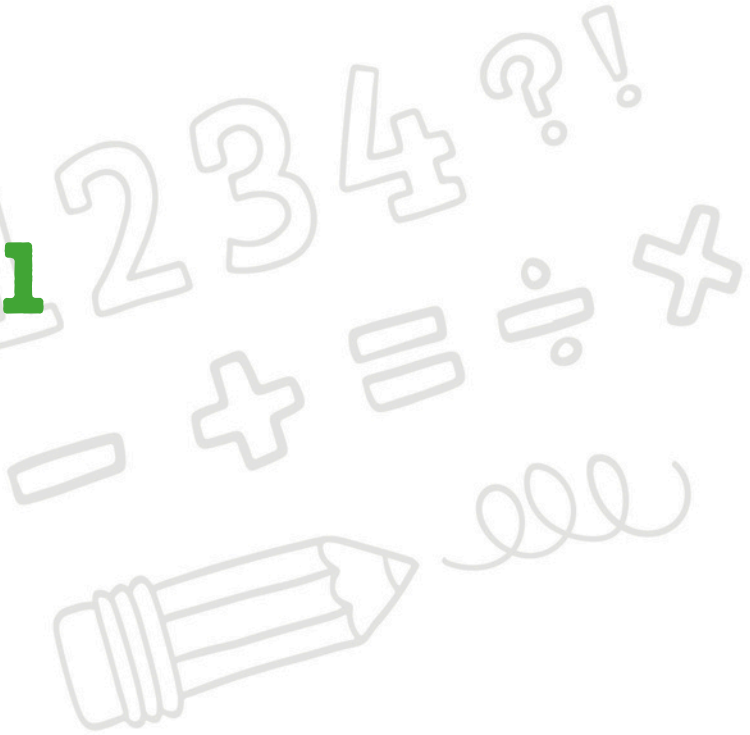
Look/work through the worksheets until the learner finds the appropriate level of challenge. This will help you to work out what level is a good starting point for the learner.

LCB EDUCATION

Mathematics

AQA Unit Award Scheme Mapped

ENTRY LEVEL 1



Book 1 of 3

Counting up to 20

Instructions

Look at the picture and answer the questions.

Counting up to 20

How many anglerfish are there? 1

How many blue fish are there? 2

How many starfish are there? 3

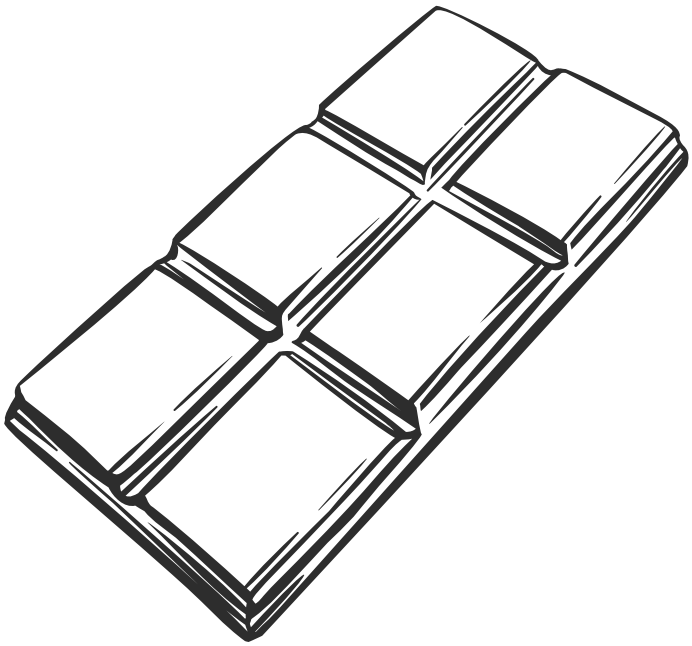
How many clownfish are there? 4

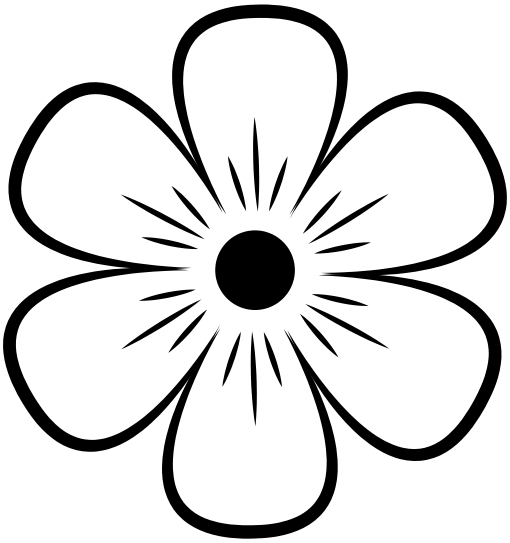
How many sharks are there? 5

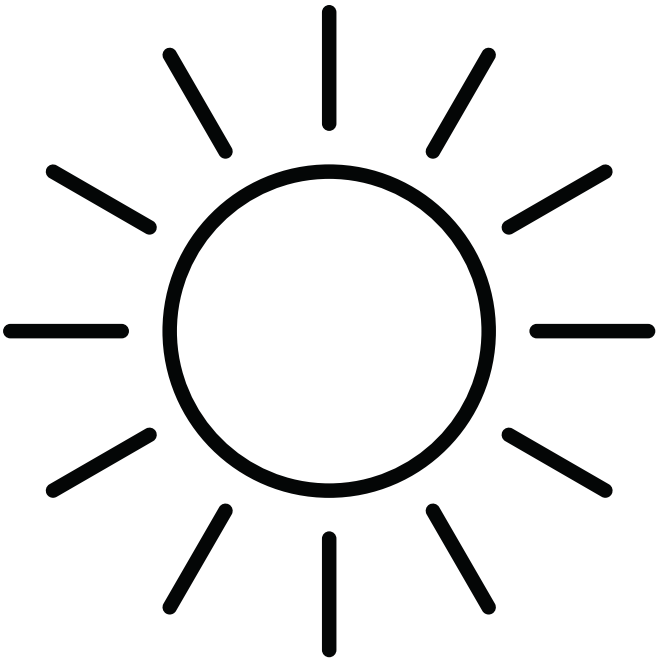
Halving Fun

Instructions

Look at the pictures below. Colour in one half of each object.







Counting Coins

Instructions

Count the total value of the groups of coins in each picture and write the totals in the boxes provided.

1

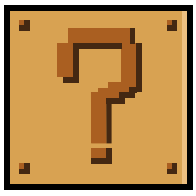
2

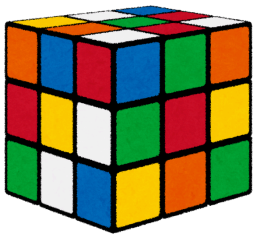
3

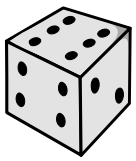
Shape Search

Instructions

Write the name of each shape: circle, triangle, square, rectangle, cube







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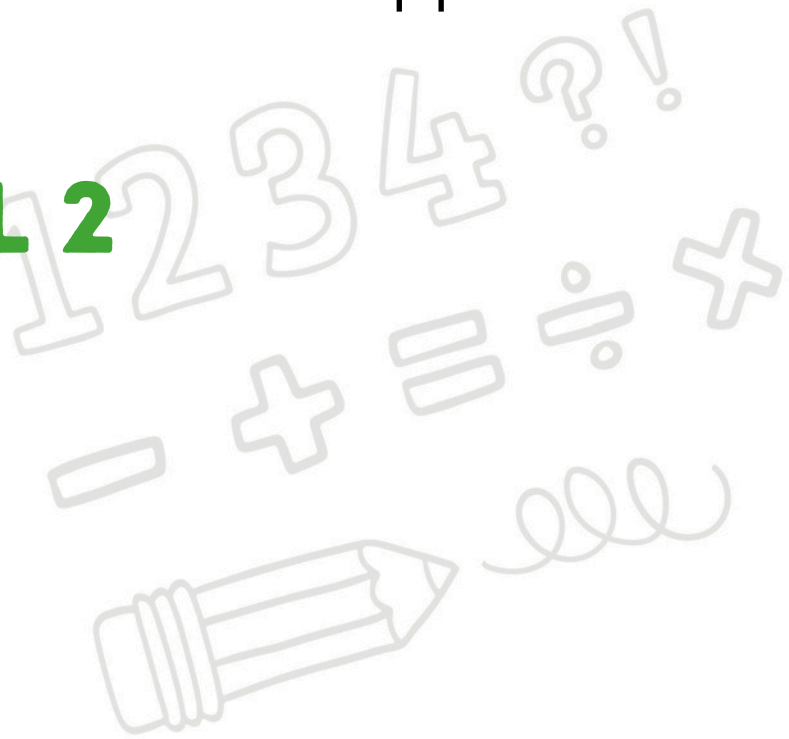
ENTRY LEVEL 2



Book 2 of 3

2. Place Value Puzzles with Daisy

Instructions

Daisy is organising a number display in her bedroom. She needs to understand the place value of two-digit numbers to arrange them correctly.

3 Daisy found some number cards. Write down the value of the tens and the value of the ones for each card.

		Tens	Ones
78	=		
62	=		
10	=		
3	=		

4 Swap the digits in the number 64 to create a new number. What is the new number, and what are its place values?

New number: _____

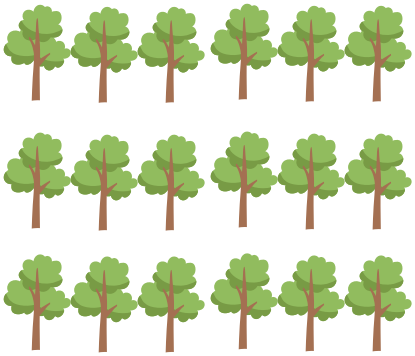
Place values: Tens ( ) Ones ( )

2. Hartley Hedgehog's Fraction Calculations

Scenario

Hartley Hedgehog is solving fraction puzzles in the forest. He needs to work out one third or one quarter of different numbers.

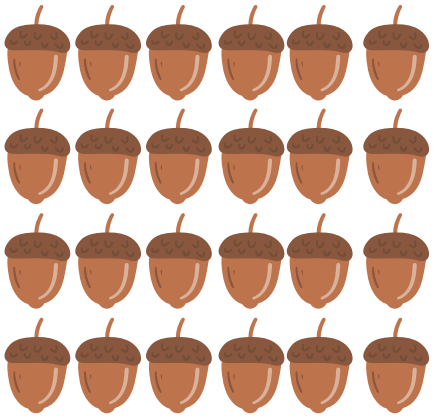
1



Hartley needs to find one third of 18. How many is that?

Answer _____

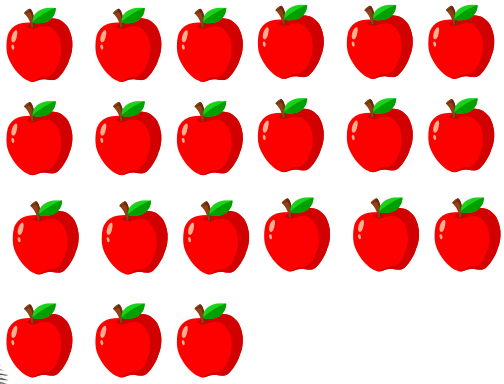
2



Hartley needs to find one quarter of 24. How many is that?

Answer _____

3



Hartley is asked to find one third of 21. How many is that?

Answer _____

1.Coin Comparison with Dexter

Scenario

Dexter is at the local market and wants to understand what he can buy with different amounts of coins.

2 How much does he have in each of his pockets?

Left Pocket

Right Pocket

3 Which is the higher amount?

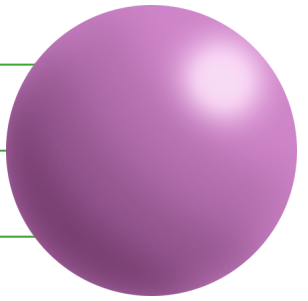
4 What do you get if you add all the coins in both pockets together?

4. Hartley Hedgehog's Solid Shape Exploration

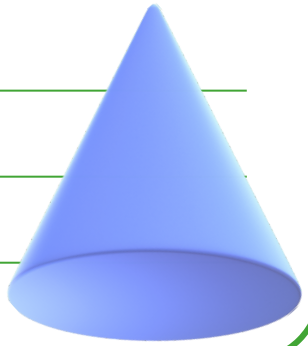
Scenario

Hartley Hedgehog is exploring a cave filled with solid shapes and needs to describe their properties.

4 Describe the properties of a sphere. How many curved surfaces, edges and vertices does it have?



5 Describe the properties of a cone. How many faces, curved surfaces, edges and vertices does it have?



6 Tick the statement that is true.

A cuboid has more faces than a cube, this is why cuboids are longer.

A cone and a cylinder has the same number of vertices.

Some pyramids have 4 faces, 6 edges and 4 vertices.

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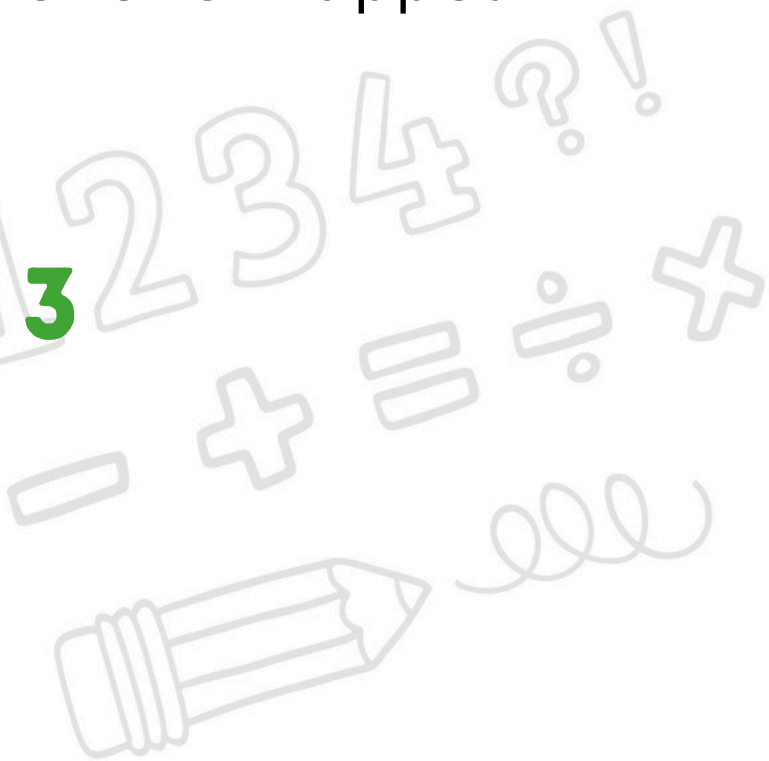
ENTRY LEVEL 3



Book 3 of 3

1. Reading and Writing Numbers with Hartley

Scenario

Hartley is practising reading and writing 3-digit numbers.
He is finding it a bit tricky and getting a bit muddled.

Can you check Harley's work and make corrections where he has made his mistakes.

1 Hartley has been writing numbers in words. Tick the answers he has got correct and put a cross on the answers he has got wrong. Write the correct answers next to his mistakes.

110	One hundred and ten	
240	Two hundred and fourteen	
351	Three hundred and fifty-one	
594	Five hundred and eighty-four	
809	Eight hundred and ninety	

2 Can you draw lines to match the numbers in numerals with the numbers in words.

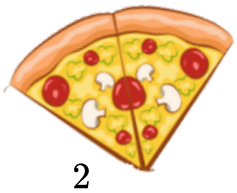
367	Nine hundred and ninety-nine
800	Three hundred and seventy-six
376	Three hundred and sixty-seven
512	Eight hundred
999	Five hundred and twelve

6. Adding and Subtracting Fractions

Instructions

Solve the fraction scenarios.

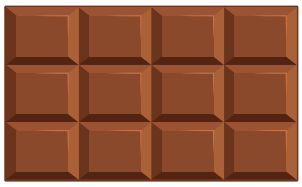
1 How much pizza was eaten in total?



Jai ate $\frac{3}{8}$ of pizza and Kip ate $\frac{2}{8}$ of a pizza.

_____

2 If you ate $\frac{8}{12}$ of this chocolate bar, how much would be left?



_____

4 Ted drank $\frac{1}{9}$ of his carton of milk in the morning and $\frac{3}{9}$ in the afternoon.

a) What fraction of his carton of milk did he drink altogether?

_____

B) What fraction of his carton does he have left?

_____

5 Write your own addition **or** subtraction scenario using **fifths**.

_____

_____

_____

_____

1. Note Combinations with Summer




3 Summer has this amount of money.

Can she afford to buy the dress?

Answer _____

4 Summer has this amount of money.

Can she afford to buy the trainers?

Answer _____

5 Summer has this amount of money.

Can she buy both the book and the bag?

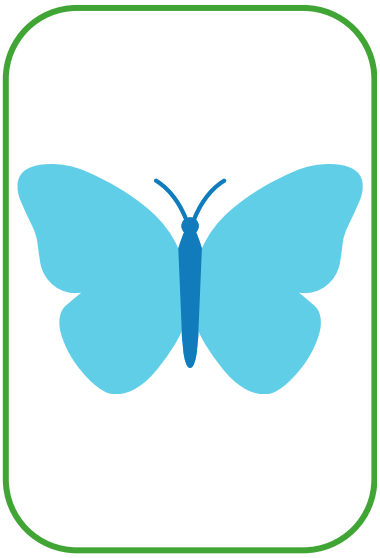
Answer _____

2. Lines of Symmetry on Real Life Objects

Instructions

Solve these symmetry problems that relate to real life.

1 Draw lines of symmetry on the following real-life objects:



2 A butterfly has 1 line of symmetry. TRUE FALSE

A heart has 2 lines of symmetry. TRUE FALSE

A starfish has 5 lines of symmetry. TRUE FALSE

LCB EDUCATION

Mathematics

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FUNCTIONAL SKILLS LEVEL 1

Number Race

Instructions

Put these numbers in order from smallest to largest.

1. 7 | 23 | 2 | 568

2. 7,296 | 7,532 | 7,111 | 7,568

3. 345,678 | 123,456 | 987,654 | 567,890

4. 456,789 | 999,999 | 123,456 | 789,456

5. 234,567 | 987,123 | 567,890 | 123,987

2. Hartley's Party Prep

Scenario

Hartley Hedgehog is preparing for a party and needs to find fractions of various supplies.
Simplify your answer where possible.

1 There are 40 cups, and 16 are plastic. What fraction of the cups are plastic?

Answer _____

2 Hartley has 50 straws, and 15 are striped. What fraction of the straws are striped?

Answer _____

3 Out of 60 party hats, 20 are yellow. What fraction of the party hats are yellow?

Answer _____

4. Adding and Subtracting Decimals

Scenario

Hartley Hedgehog is buying supplies for his burrow and needs to calculate costs.

4 Hartley took £15.00 to spend in the garden centre. He bought a pot for £9.00 and a plant for £4.20. How much change did he get?

Answer _____

5 Hartley buys a clock for £6.30, a mug for £3.75 and a candle for £1.15. What is the total cost?

Answer _____

6 He bought a picture frame for £5.45 and a photo album for £5.55. He gave the shopkeeper a £20 note. How much change did he get?

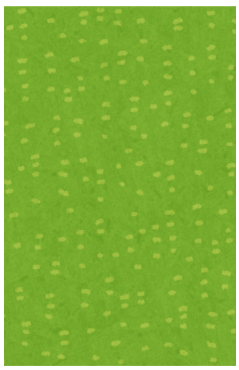
Answer _____

1: Measurements in Real Life

Instructions

David is working on some area and perimeter problems. Help him solve them below.

1



15m

10m

How much fencing is needed to go around the garden?

Answer _____

2

25cm

18cm

A picture frame is 25 cm long and 18 cm wide.

What is the perimeter of the picture frame?

Answer _____

3

20m

10m

A rectangular swimming pool is 20 m long and 10 m wide.

Calculate the area of the pool.

Answer _____

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FUNCTIONAL SKILLS LEVEL 2

Averages: Mean, Median, Mode

Instructions

Find the mean, median and mode for each set of numbers.
Show your working where necessary.
(Round your answers to the nearest whole number where necessary.)

Example

25, 30, 25, 35, 25, 40

Put the list in order to find the mode

25, 25, 25, 30, 35, 40

Mean: *30*
Median: *28*
Mode: *25*

1

10, 15, 20, 15, 10, 25, 30

Put the list in order to find the mode

Mean:
Median:
Mode:

2

4, 6, 8, 10, 12, 14, 16

Put the list in order to find the mode

Mean:
Median:
Mode:

3

12, 15, 12, 18, 21

Put the list in order to find the mode

Mean:
Median:
Mode:

4

3, 5, 7, 9, 11

Put the list in order to find the mode

Mean:
Median:
Mode:

1.Equivalence Between Fractions, Decimals, and Percentages

Instructions

Work out these fraction scenarios.

1 A population grew by 0.6 over the year. Express this growth as a percentage and as a fraction in its simplest form.

Answer _____

Answer _____

2 A discount of 15% is offered on a product. Express this as a decimal and as a fraction in its simplest form.

Answer _____

Answer _____

3 A tank is filled to 0.45 of its capacity. What is this in percentage and as a fraction in its simplest form?

Answer _____

Answer _____

1. Tessa’s Monthly Budget

Instructions

Tessa is a teenager who receives a monthly allowance and has a part-time job. Tessa wants to manage her money wisely to save for a new smartphone.

Income:
Part-time job: £200
Pocket Money: £50

Total Income
£250

Tessa has identified the following monthly expenses:

1. Transport: £40
2. Food (lunches and snacks): £30
3. Entertainment (movies, games): £20
4. Savings for Smartphone: £50

Total Planned Expenses
£140

1 Calculate Tessa's Surplus: Subtract the total planned expenses from the total income to find the surplus.

Answer _____

2 Adjusting the Budget: Tessa wants to save an additional £20 each month for the smartphone. Suggest areas where Tessa could reduce spending to meet this goal.

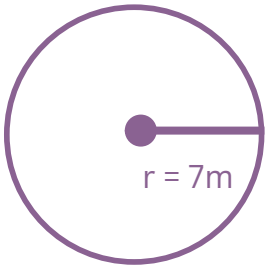
1 .Calculating Area with Hartley Hedgehog

Instructions

Hartley Hedgehog is exploring different shapes. Use the formulas provided to calculate the **area** of each shape. Show your working for each question.

Use π = 3.14

1 Hartley Hedgehog is planning a circular picnic area with a radius of 7 meters. Calculate the area of the picnic spot.



$$\text{Area} = \pi \times \text{radius}^2$$

Answer _____

2 Hartley is setting up a parallelogram-shaped garden with a base of 12 meters and a height of 5 meters. Calculate the area of the garden (Draw and label the parallelogram to help you with this).

$$\text{Area} = \text{base} \times \text{height}$$

Answer _____