

Message to Parents:

The summer holidays are here! To help keep your child entertained, we've put together a Summer Holiday Resource Pack.

The pack includes a set of quick activities to be completed each week and has been produced to reduce summer holiday learning loss.*

We'll tell you now that the answers to all of the questions in this pack are on the last two pages.

Message to Teachers:

You can print this pack for your students to use during the holidays.

Your Summer Holiday Resource Pack: Maths

Summer holiday time means a relaxing break from school.

We've made a fantastic Summer Holiday Resource Pack for something to do in your break. It's really enjoyable and also means you can use EducationCity. Yay!

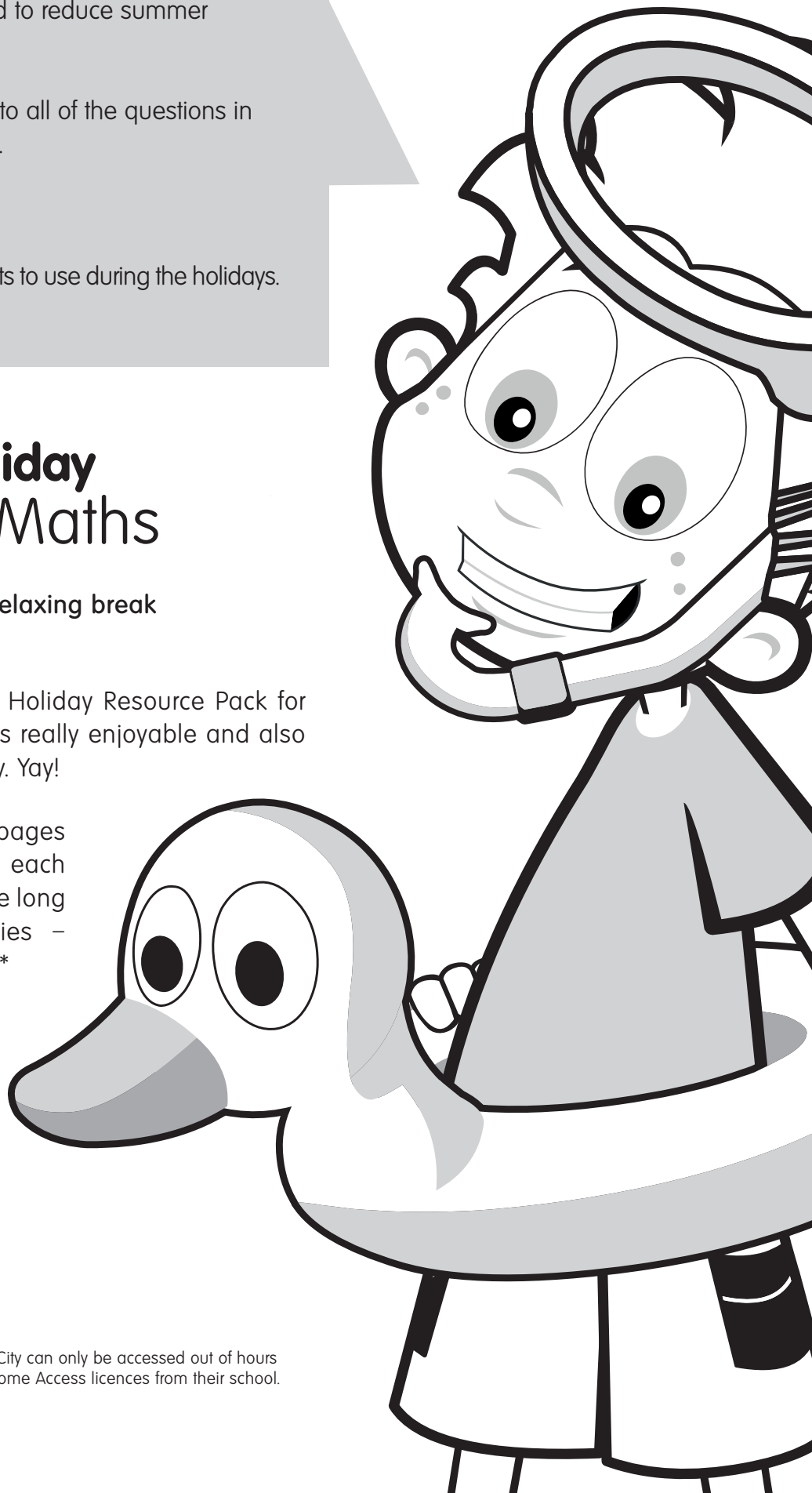
In this pack, there are seventeen pages to complete; two or three for each week of the break – they don't take long and are full of brilliant activities – including ones on EducationCity.**

You can even go on PlayLive Maths – see what score you can get.

Hope you enjoy it!

*The Activities mentioned in this pack on EducationCity can only be accessed out of hours by those students who have been provided with Home Access licences from their school.

**All Activities are in Key Stage 2 on EducationCity.





Name: _____ Class: _____

Exercise 1

Keep your maths brain active by answering these **10 really quick questions** and completing the Activities which you can find on EducationCity!

1 Round **3,755** to the nearest hundred.

2 What year is **MMXIV**?

3 The temperature in Iceland is -2°C . If the temperature rises by 12°C , what will be the new temperature?

4 Calculate $1,234 + 4,566$

5 Calculate $2,300 - 1,289$

6 Tick the fractions which are equivalent to $\frac{2}{3}$

$\frac{4}{6}$

$\frac{16}{48}$

$\frac{20}{30}$

$\frac{8}{6}$

$\frac{10}{3}$

$\frac{8000}{12000}$

7 Put these numbers in order from smallest to largest.

1.23

1.203

2.23

12.203

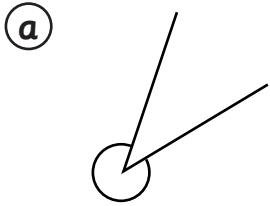
1.023

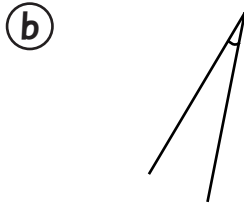
8 Manu is watching a film at the cinema. It is **1 hour and 50 minutes long**. If the film started at **6:27 p.m.**, what time will it finish?

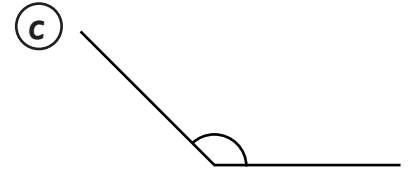


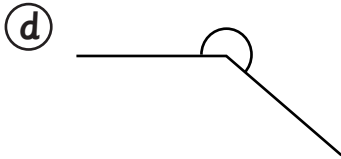
Name: _____ Class: _____

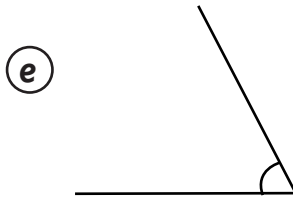
9 Label the angles as **acute**, **obtuse** and **reflex**.

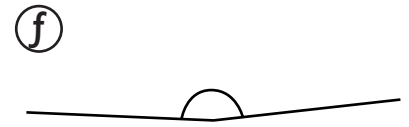






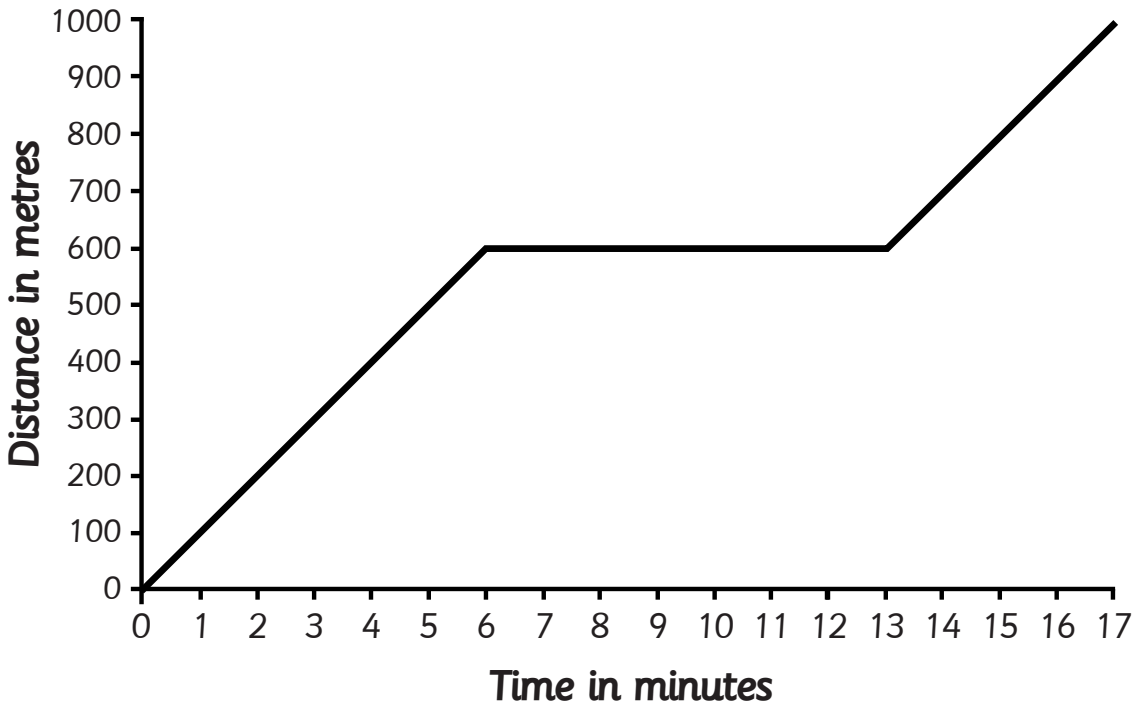






10 This graph shows Manu's journey to school. He stops at the shop on the way to school.

How long did Manu spend at the shop? _____



Brush up on your maths knowledge!

Search for these Activities on EducationCity: **Captain Cod** - Square numbers 12 x 12

High Score Hero - Place value of numbers up to 1, 000, 000



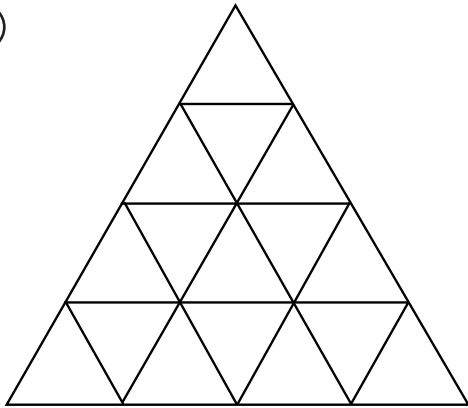
Name: _____ Class: _____

Exercise 2

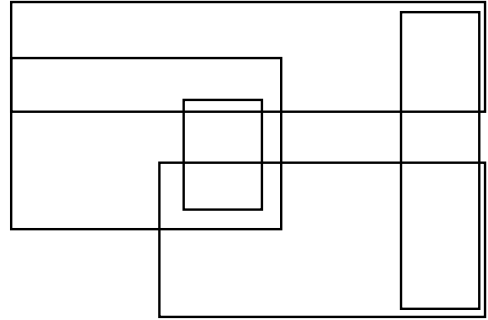
How about a perplexing puzzle to test your knowledge of 2D shapes?

1 How many triangles and rectangles are in these pictures?

a



b



Can you make your own picture like this?

c

Exercise 3

PLAYLIVE:



Just ten minutes of **PlayLive Maths** each day will help to keep your maths brain fast and snappy! Try to improve your score each day and record your best score each week.

My best PlayLive Maths score this week is



Name: _____ Class: _____

Exercise 1

Answer these 10 quick questions!

- 1 Manu has £15.23. He gives Klara £2.34. **How much money does Manu have left?**

- 2 What is the lowest common multiple of 2, 3 and 4?

- 3 Which of these numbers are prime numbers? 7, 9, 13, 15 and 19

- 4 Calculate $2,343 \times 23$

- 5 Put these fractions in order from largest to smallest.

$$\frac{4}{5} \quad \frac{1}{2} \quad \frac{7}{10} \quad \frac{1}{4} \quad \frac{3}{20}$$

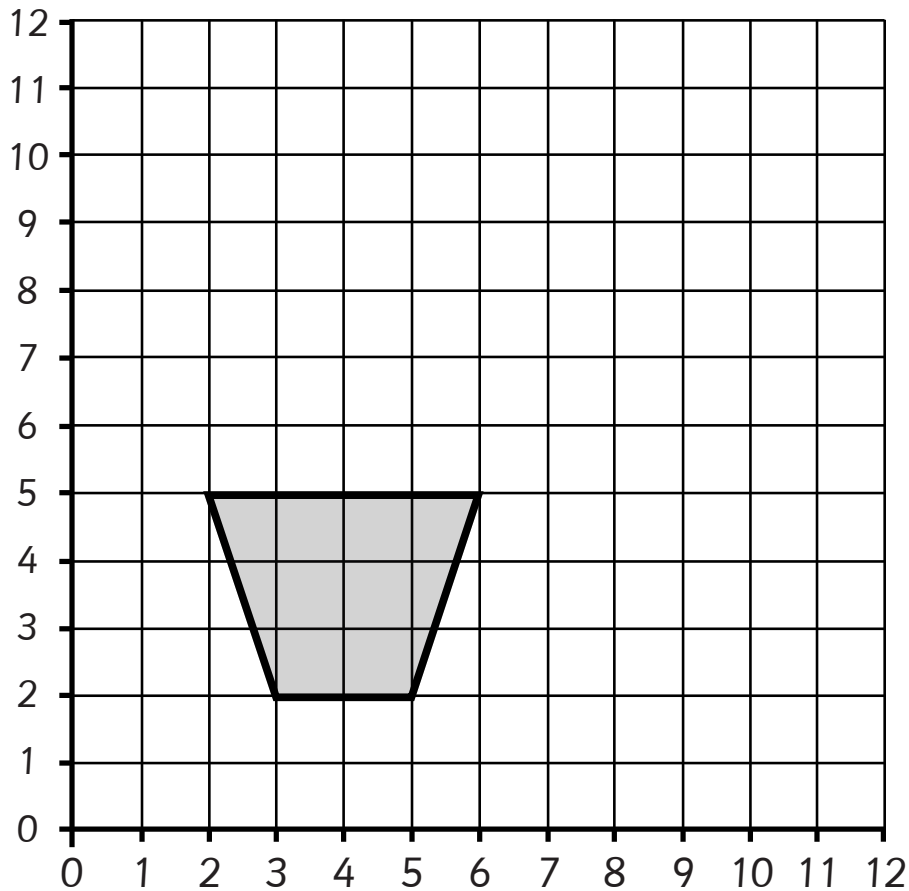
- 6 Convert $\frac{16}{5}$ to a mixed number.

- 7 What is 25% as a fraction and decimal?



Name: _____ Class: _____

- 8** Translate this shape **2 spaces to the right and 6 spaces up**.
Draw the new shape.



- 9** What is the number **XCIX**?

- 10** If the Moon is **384,400km** away from the Earth, how far would an astronaut travel if he flew to the Moon and back to Earth again?



Keep that maths brain super charged!

Search for the following Activities on EducationCity: **Ready, Steady, Bake** - Relate percentages to fractions / **Bargain Sale** - % of whole numbers

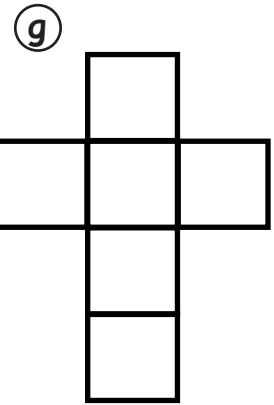
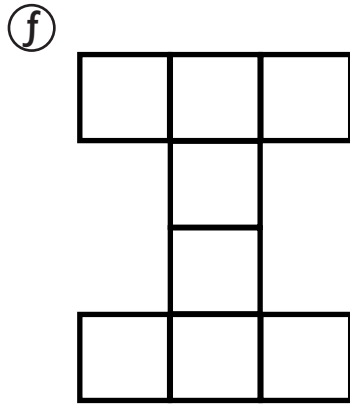
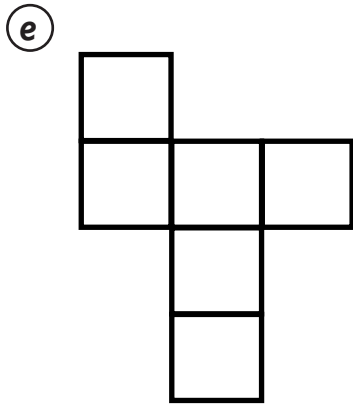
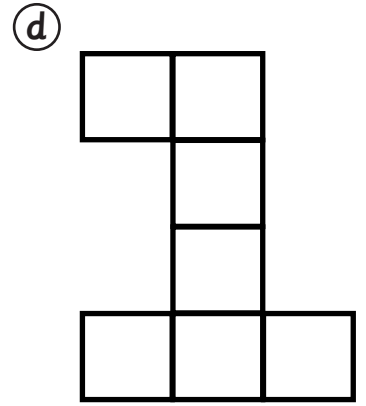
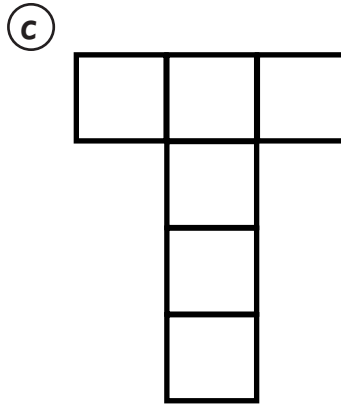
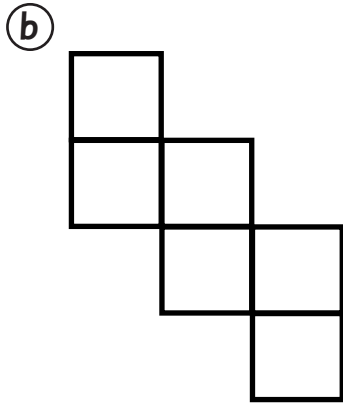
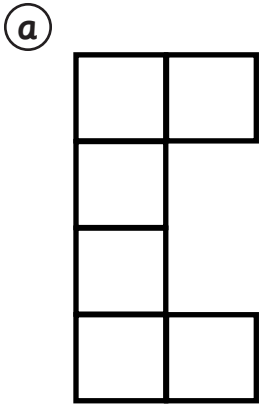


Name: _____ Class: _____

Exercise 2

Have a go at another perplexing 2D shape puzzle!

1 Tick the nets which make a cube. Can you find any other nets that will make a cube? There are 4 in total.



Exercise 3

PLAYLIVE:

My best PlayLive Maths score this week is _____



Name: _____ Class: _____

Exercise 1

Keep your maths brain fit and healthy with another **10 quick questions** and 2 more EducationCity Activities!

1 How many **grams** are equivalent to **2.8kg**?

2 What year is **MM**?

3 Write these numbers in order from largest to smallest:

102,034 10,234 123,034 12,340 100,334

4 What is **10 less** than **-5**?

5 Calculate **563,563 + 563**

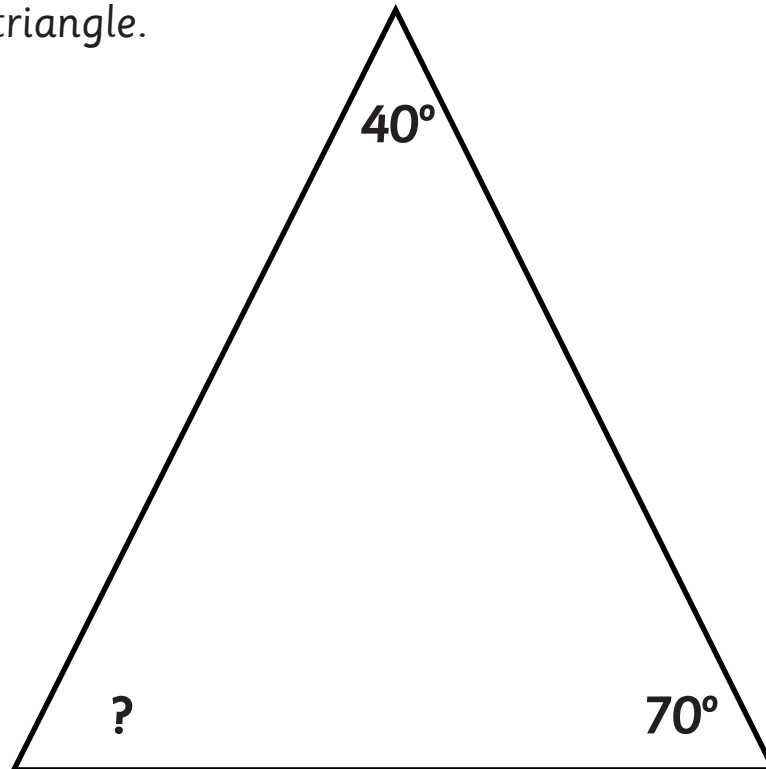
6 Convert $1\frac{2}{5}$ to an improper fraction.

7 What is $\frac{1}{5}$ as a percentage and decimal?



Name: _____ Class: _____

- 8 Look at the triangle.



What is the size of the missing angle?

- 9 Round **34,526** to the nearest thousand.

- 10 Granny wants to buy a new house. It costs **£175,950**. Granny has **£103,250** in savings. How much money will Granny need to borrow from the bank to buy the house?



Log in to EducationCity and search for this Activity to get clued up on negative numbers!
Shiver and Quiver - Temperatures across zero



Name: _____ Class: _____

Exercise 2

This sequence is a really perplexing puzzle which pops up in nature everywhere.

1 Can you continue the sequence?

a) 0, 1, 1, 2, 3, 5, 8, 13, 21, 34,

Do you know who discovered this sequence?

b) _____



To get even more skilled up with negative numbers, go on EducationCity and search for this Activity:

Slippery Slope - Negative number problems

Exercise 3

PLAYLIVE:



My best PlayLive Maths score this week is



Name: _____ Class: _____

Exercise 1

Another 10 quick questions and 2 more EducationCity Activities, to keep you on your maths toes!

1 Calculate $200,000 - 299$

2 What is $£9.31 - £3.67$?

3 What is $4,746$ divided by 7 ?

4 What is $27,648$ divided by 8 ?

5 What is $2,345$ multiplied by 23 ?

6 If the temperature in Spain is 28°C and the temperature in Iceland is -12°C , what is the difference in the temperature between the two countries?

7 What is the number **CDLII**?

8 What is 100 less than $98,354$?



Name: _____ Class: _____

9 Convert $\frac{18}{4}$ to a mixed number.

10 A rectangle has sides of **33cm** and **1.5m**. What is its perimeter in metres?

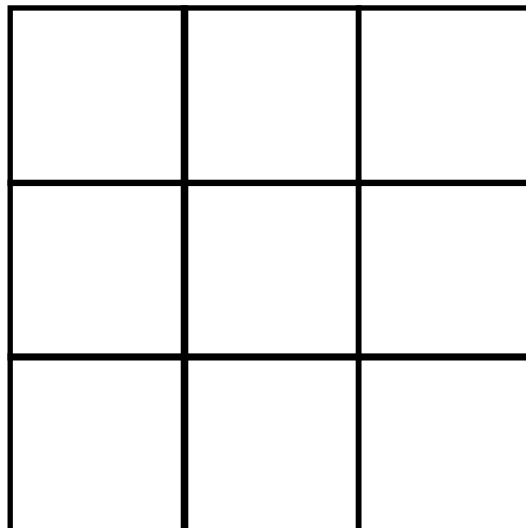


Get on EducationCity and search for these Activities to swot up on your maths knowledge! **Atlantic Pirates** - Calculating angles
Driving Range - Measure angles to nearest five degrees

Exercise 2

Perplexing Puzzle: How about a number-based one?

1 Place the numbers 1 to 9 inside the boxes so that all the lines passing throughout the centre square always add up to make the same number. Can you find more than one solution to this puzzle? What is the rule?



Exercise 3

PLAYLIVE:



My best PlayLive Maths score this week is



Name: _____ Class: _____

Exercise 1

Keep up the good work with another **10 quick questions** and some more EducationCity Activities!

1 Divide **2,365** by **6**, giving the remainder as a number.

2 Write all of the square numbers which are **below 30**

3 What is **3,560,700** divided by **100**?

4 Multiply **63** by **1,000**

5 Complete the calculation by filling in the boxes with two suitable numbers:

$$\boxed{} \times 7 = 56 \div \boxed{}$$



Name: _____ Class: _____

6 What is the number **CMXCIX**?

7 What is ten more than **134,566**?

8 Convert $4\frac{5}{7}$ to an improper fraction.

9 Calculate $\frac{2}{3} + \frac{3}{6}$

10 A rectangle has sides of **4 cm** and **53 mm**.
What is its area in **cm²**?



How about a great EducationCity maths-related Activity?

Log in to EducationCity and search: **Marvellous Muffins** - Using metric scales

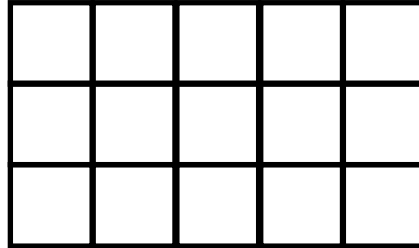


Name: _____ Class: _____

Exercise 2

You might find a solution to this perplexing problem in your bathroom or kitchen.

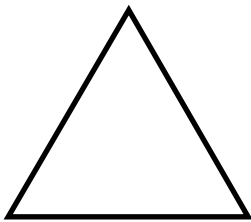
1 If a repeated shape fits together, without any gaps or overlaps, we say that it **tessellates**.



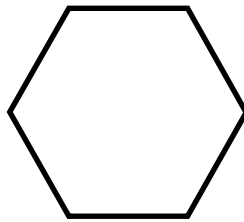
Squares Tessellate

a Which of these regular shapes will tessellate?

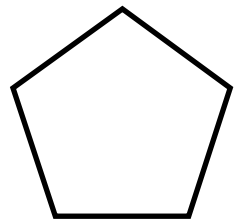
Equilateral Triangle



Hexagon



Pentagon



b Can you find any examples of tessellating patterns in your home?



Recommended Activity! Search on EducationCity for this great Activity - it'll help you brush up on your maths skills: **Moon Mission** - Converting metric units

Exercise 3

PLAYLIVE: 

My best PlayLive Maths score this week is



Name: _____ Class: _____

Exercise 1

These are the last **10 quick questions** and EducationCity Activities for you before you start Year 6 with a super sharp, maths-whiz mind!

1 What year is **MLXVI**?

2 Round **134,568** to the nearest 10,000

3 What is **25** more than **-28**?

4 What is the sum of **567** and **345,343**?

5 What is the difference between **2,956** and **987,354**?

6 Manu earns **£19.23** for doing his paper round. If he already has savings of **£83.67**, how much money does Manu have altogether?

7 Convert $1\frac{3}{5}$ to an improper fraction.

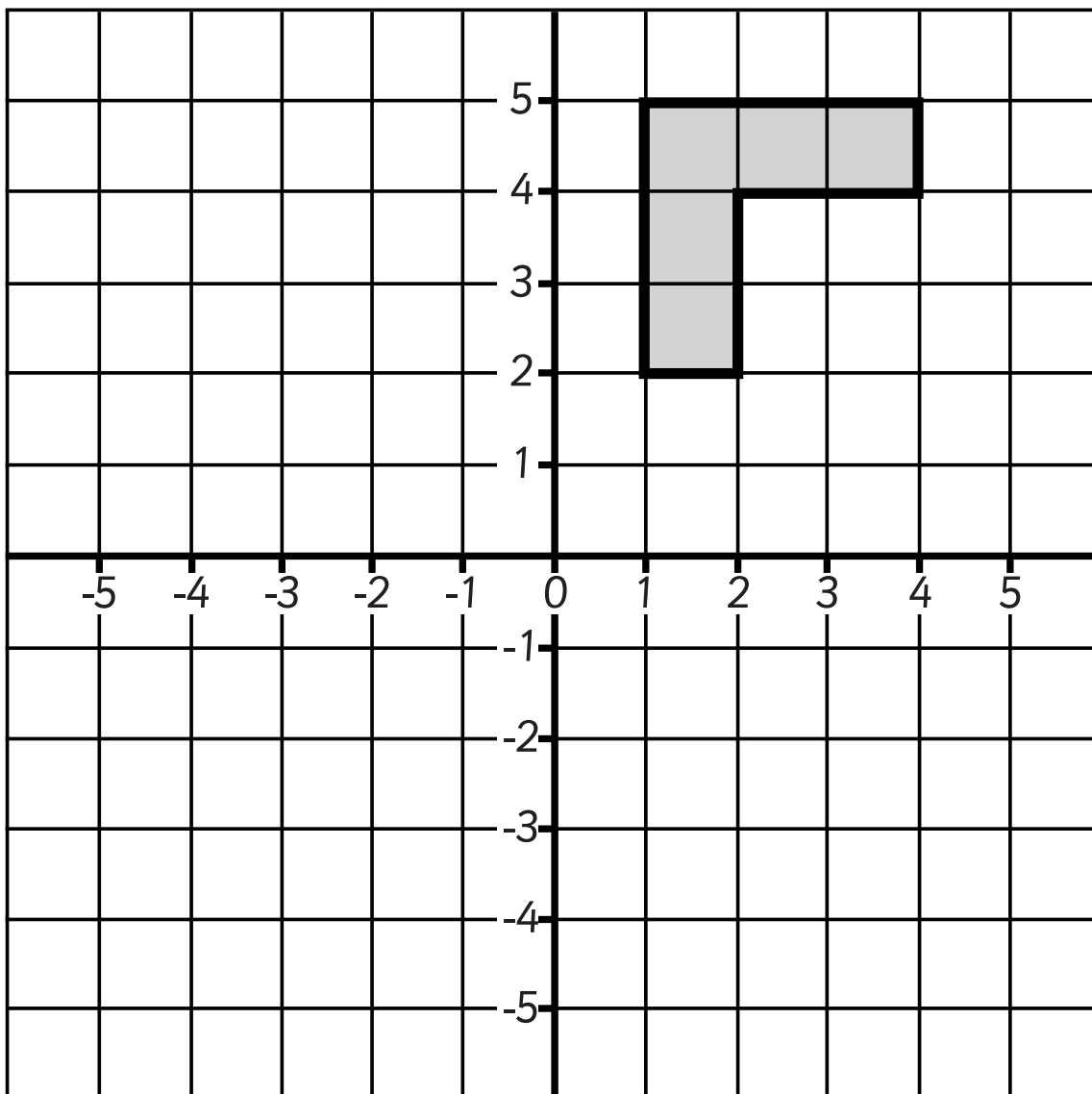
8 Calculate $\frac{4}{5} - \frac{7}{25}$



Name: _____ Class: _____

- 9 If Klara wakes up at **8:34 a.m.** and goes to bed at **9:56 p.m.**, how long has Klara been awake?

- 10 Reflect this shape in the **y** axis.



Recommended EducationCity Activity alert! Search on EducationCity for this Activity to get learning more about calculating area!
Blanket Coverage - Area: Tiling and Multiplication



Name: _____ Class: _____

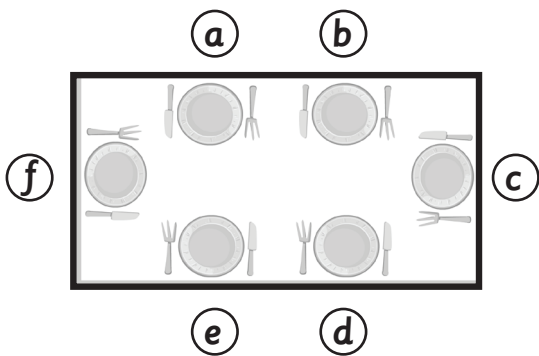
Exercise 2

The last perplexing puzzle! Give it a go!

1 **Manu, Stig, Klara, Emma, Meg** and **Chip** are going out for dinner. They are arguing about where they should sit around the table.

- Manu has sat down and says that he will only sit next to Klara.
- Klara says that she won't sit next to Stig.
- Stig says that he won't sit next to Meg or Emma.
- Meg says that she will only sit next to Chip.
- Chip says that he doesn't mind where he sits as long as he gets his dinner.

Write a table plan for the EducationCity characters, to stop them arguing.



(a) <u>Manu</u>	(d) _____
(b) _____	(e) _____
(c) _____	(f) _____



Want to brush up on some of your maths skills?

Search for this Activity on EducationCity: **High Rise** - Irregular perimeter & area

Exercise 3

PLAYLIVE: _____

My best PlayLive Maths score this week is _____



On this page, we've provided you with the answers for each of the questions in this pack.

Week 1 - Exercise 1

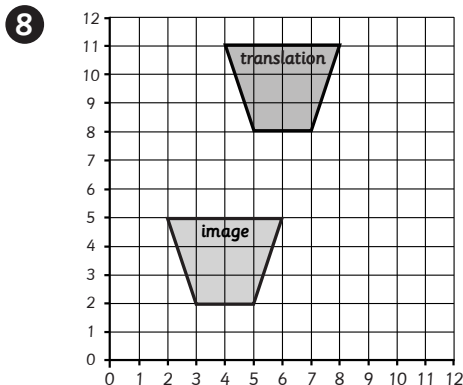
- 1 3,800
- 2 2014
- 3 10°C
- 4 5,800
- 5 1,011
- 6 $\frac{4}{6}$ $\frac{20}{30}$ $\frac{8000}{12000}$
- 7 1.023 1.203 1.23 2.23 12.203
- 8 8:17 p.m.
- 9 a) reflex, b) acute, c) obtuse, d) reflex, e) acute, f) obtuse
- 10 7 minutes

Week 1 - Exercise 2

- 1 a) 27 triangles b) 26 rectangles

Week 2 - Exercise 1

- 1 £12.89
- 2 12
- 3 7, 13, 19
- 4 53,889
- 5 $\frac{4}{5}$ $\frac{7}{10}$ $\frac{1}{2}$ $\frac{1}{4}$ $\frac{3}{20}$
- 6 $3\frac{1}{5}$
- 7 $\frac{1}{4}$ and 0.25



- 9 99
- 10 768,800

Week 2 - Exercise 2

- 1 b, c, e, g

Week 3 - Exercise 1

- 1 2800g
- 2 2000
- 3 123,034 102,034 100,334 12,340 10,234
- 4 -15
- 5 564,126
- 6 $\frac{7}{5}$
- 7 20% and 0.2
- 8 70°
- 9 35,000
- 10 £72,700

Week 3 - Exercise 2

- 1 a) 55
b) This is the **Fibonacci sequence**. The next **number** is found by adding up the two **numbers** before it. Fibonacci was an Italian **mathematician** from the thirteenth century.

Week 4 - Exercise 1

- 1 199,701
- 2 £5.64
- 3 678
- 4 3,456
- 5 53,935
- 6 40°C
- 7 452
- 8 98,254
- 9 $4\frac{2}{4}$ or $4\frac{1}{2}$
- 10 3.66m



Week 4 - Exercise 2

- 1 The number 5 is at the centre and the other numbers in each line must add to make 15.

8	3	6
9	5	1
4	7	2

Week 5 - Exercise 1

- 1 394, remainder: 1
 2 1, 4, 9, 16, 25
 3 35,607
 4 63,000
 5 For example: $(1) \times 7 = 56 \div (8)$
 6 999
 7 134,576
 8 $\frac{33}{7}$
 9 $\frac{7}{6}$ or $1\frac{1}{6}$
 10 21.2 cm^2

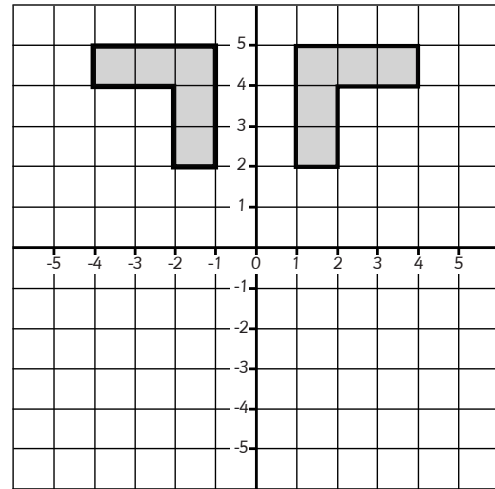
Week 5 - Exercise 2

- 1 a) Equilateral triangle and hexagon.
 b) Accept any reasonable response.

Week 6 - Exercise 1

- 1 1066
 2 130,000
 3 -3
 4 345,910
 5 984,398
 6 £102.90
 7 $\frac{8}{5}$

- 8 $\frac{13}{25}$
 9 13 hours and 22 minutes
 10



Week 6 - Exercise 2

- 1 a) Manu, b) Klara, c) Emma, d) Meg, e) Chip, f) Stig
 OR
 a) Manu, b) Stig, c) Chip, d) Meg, e) Emma, f) Klara

