Week One

Task 1

Find the missing numbers.

85,000 = _____ + 5,000
9,190 = 9,000 + _____ + _____
51,347 = _____ + _____ + _____ + 40 + _____

Task 2

Write the number **384,091** in words.

Task 3

Write the number one hundred and twenty-nine thousand, five hundred and sixteen in numerals.

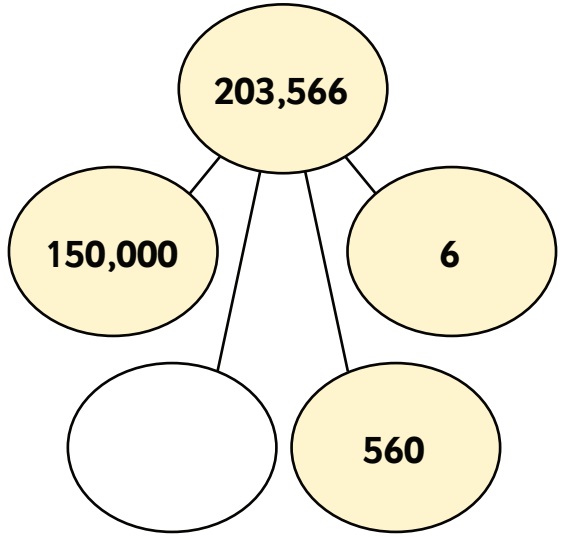
Task 4

Complete the table.

	Add 10	Add 100	Add 1,000
1,459			
4,002			
8,995			

Task 5

Complete the part-whole diagram.



Task 6

Describe the value of the digit 4 in each of the following numbers.

a) 94,055

b) 405,512

c) 845,108

Week Two

Task 1

Circle the number that matches one million, five hundred and sixty thousand, eight hundred and eight.

1,506,808

1,560,808

1,560,880

1,560,088

1,056,808

Task 2

Use <, > or = to compare these numbers.

284,199	◯	**99,999**
875,300	◯	**788,488**
one million	◯	**100,009**

Task 3

Find a number that is greater than 125,000 but less than 168,000.

Task 4

Find the missing numbers

a) 7,900,490 = _____ + 900,000 + _____ + _____

b) _____ = 8,000,000 + 100,000 + 20,000 + 4,000 + 500 + 20 + 3

Task 5

Complete the column sum.

	2	**5**	**0**	**5**	**7**
+		**5**	**1**	**4**	**4**

Task 6

Solve these calculations.

2 – 4 = _____
-1 + 6 = _____
4 – 10 = _____

Week Three

Task 1

A farmer picked 368 apples on Wednesday.
The next day, he picked 112 more than on Wednesday.
On Friday he picked 230 apples less than Thursday.
How many apples did he pick altogether?

Task 2

I'm thinking of a number. After I subtract 3,296 and add 911, my number is 11,000.

What was my original number?

Task 3

What number is represented by **CDLXXXIV**?

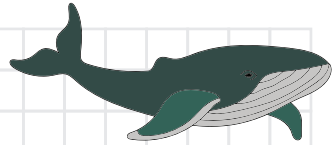
Task 4

Complete the table by rounding.

	to nearest 10	to nearest 100	to nearest 1,000
850			
1,237			
6,666			

Task 5

There are 41,194 whales in the Arctic ocean.
11,204 are bowhead whales.
How many are not bowhead whales?



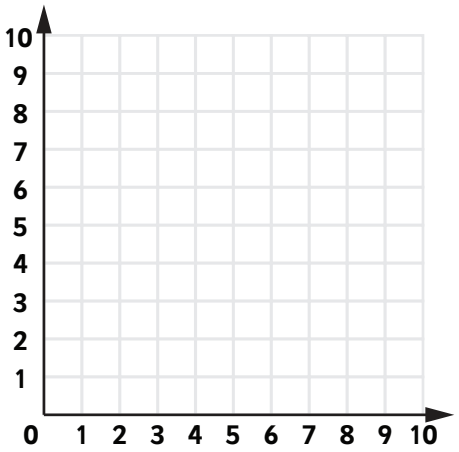
Task 6

Lily had £32 in her bank account.
A pair of shoes cost her £40.
How much does she have in her account now?

Week Four

Task 1

Draw the vertices of the polygon with the coordinates (4, 4), (7, 4), (8, 6), (7, 8), (4, 8), (3, 6).
What is the name of the polygon?



Task 2

Convert the mixed numbers into improper fractions.

$1\frac{4}{5}$ =
$3\frac{2}{7}$ =
$4\frac{3}{9}$ =

Task 3

Task 2: Find the missing digits.

	1	8	1	0		4
+	7		0	2	5	9
	9	4	1		1	

Task 4

Complete the table by rounding.

	to nearest 10,000	to nearest 100,000	to nearest 1,000,000
746,112			
62,999			
3,501,200			

Task 5

Simplify these fractions.

$\frac{8}{12}$ =
$\frac{12}{24}$ =
$\frac{15}{33}$ =
$\frac{40}{120}$ =

Task 6

Chris saved £1,603 each month.
How much did he save in 6 months?

Week Five

Task 1

Find the equivalent fractions.

a) $\frac{\square}{20} = \frac{1}{4}$

b) $\frac{14}{21} = \frac{\square}{3}$

c) $\frac{58}{\square} = \frac{29}{50}$

Task 2

Convert the improper fractions to mixed numbers.

$\frac{31}{10}$ =
$\frac{48}{7}$ =
$\frac{88}{5}$ =

Task 3

True or false

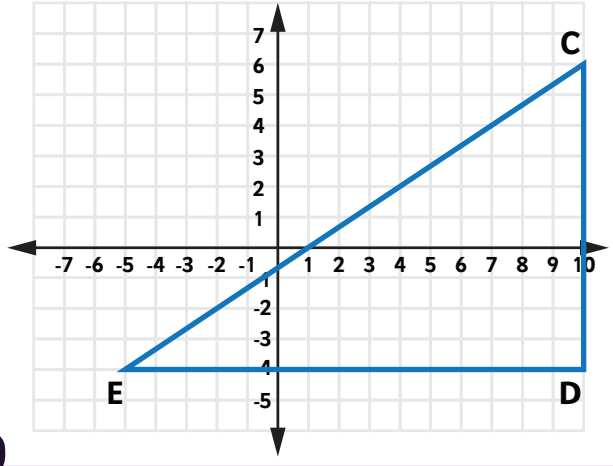
23 x 59 is less than 24 x 58.

True ☐ False ☐

Task 4

Write the coordinates for vertices

C (____,____), **D** (____,____) and **E** (____,____).



Task 5

Calculate these multiplication sums.

25 x 12 = _____
26 x 12 = _____
25 x 13 = _____
26 x 13 = _____

What do you notice?

_____

_____

Task 6

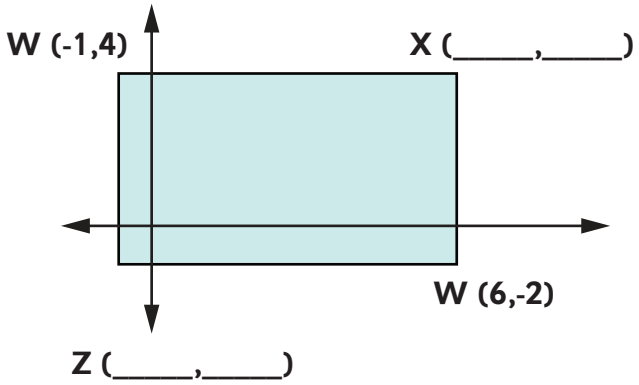
What is the remainder from this calculation?

678 ÷ 23 = _____

Week Six

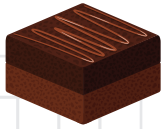
Task 1

Work out the missing coordinates of the rectangle.



Task 2

Mohammad used 14 chocolate chips per brownie.
He made 2,990 brownies.
How many chocolate chips did he use in total?



Task 3

True or false

40 has double the number of factors as 20.

True ☐ False ☐

Task 4

Use short division to solve these calculations.

4	6	3	2

8	7	7	3	0

Task 5

Calculate 32 x 854.

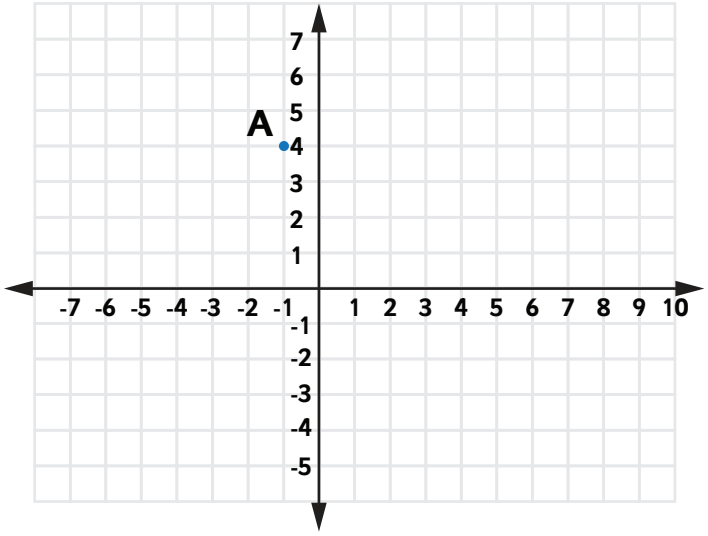
Task 6

The farmer puts eggs in cartons of 16.
On one day, their hens laid 368 eggs.
How many cartons of eggs did they fill?

Week Seven

Task 1

Translate A 6 units right.



Task 2

Use <, > or = to compare the fractions.

$\frac{1}{4}$	◯	$\frac{1}{3}$
$\frac{2}{5}$	◯	$\frac{1}{2}$
$\frac{5}{7}$	◯	$\frac{7}{8}$
$\frac{11}{12}$	◯	$\frac{10}{13}$

Task 3

List 3 common multiples of 3 and 7.

Task 4

Complete the sums.

$1\frac{3}{7} + 2\frac{1}{5} =$	
$4\frac{1}{2} + 3\frac{2}{3} =$	
$5\frac{2}{5} + 1\frac{3}{4} =$	

Task 5

True or false

$\frac{1}{4} + \frac{3}{10}$ **is greater than** $\frac{1}{2} + \frac{1}{5}$.

True ☐ False ☐

Task 6

Use long division to calculate 8,302 ÷ 7.

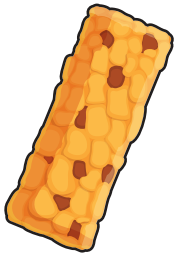
Week Eight

Task 1

Rupert has $\frac{4}{5}$ of a cereal bar.

He shares it equally with his brother.

What fraction of a cereal bar do they each get?



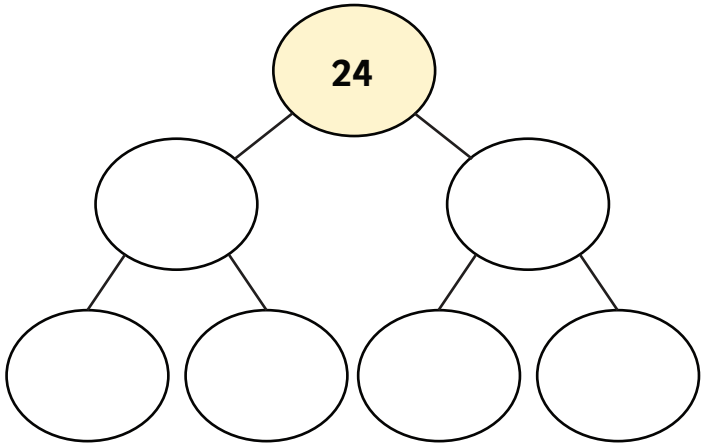
Task 3

Solve the calculation.

$$8\frac{2}{3} - \frac{1}{15} =$$

Task 5

Complete the prime factor tree for 24.

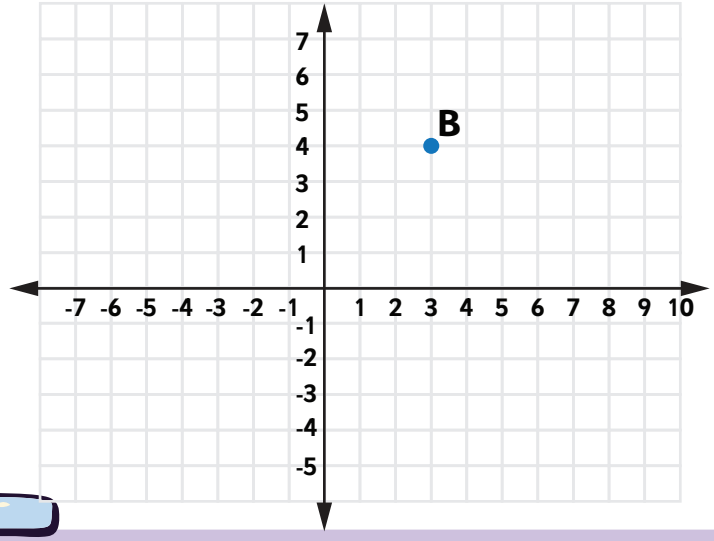


Task 2

Jim has 42 pens.
He shares them equally with the people at his table. How many people could be at his table?

Task 4

Translate B 4 units left and 7 units down.



Task 6

Find the common denominators of each pair of fractions to solve the calculations.

$\frac{2}{3} + \frac{4}{7} =$
$\frac{6}{9} - \frac{2}{5} =$
$\frac{9}{10} - \frac{1}{4} - \frac{1}{6} =$

Week Nine

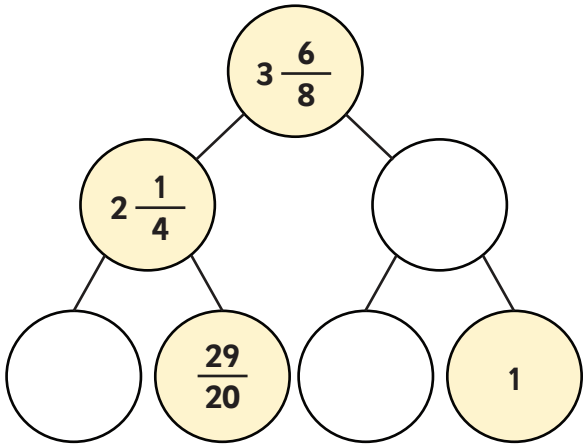
Task 1

Jenny has completed this calculation.
Fix her errors.

$$44 - (2 \times 15) \div 2 = 315$$

Task 2

Complete the part-whole model.



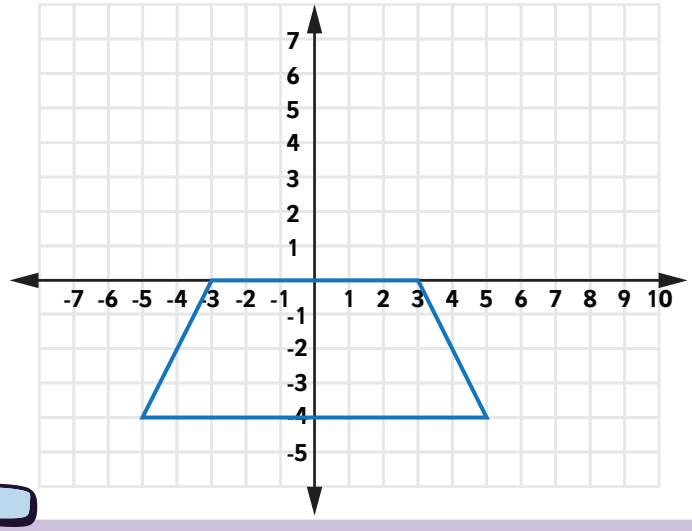
Task 3

Use <, > or = to complete the statements.

3 squared	○	2 cubed
6 cubed	○	215
169	○	13 squared

Task 4

Translate the shape 5 units to the right and 3 units up.



Task 5

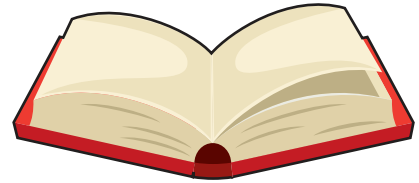
Solve these division calculations.

$\frac{1}{2} \div 4 =$
$\frac{1}{6} \div 3 =$
$\frac{3}{4} \div 2 =$

Task 6

The library's books are $\frac{2}{4}$ children's fiction, $\frac{3}{9}$ non-fiction and the rest are adult fiction.

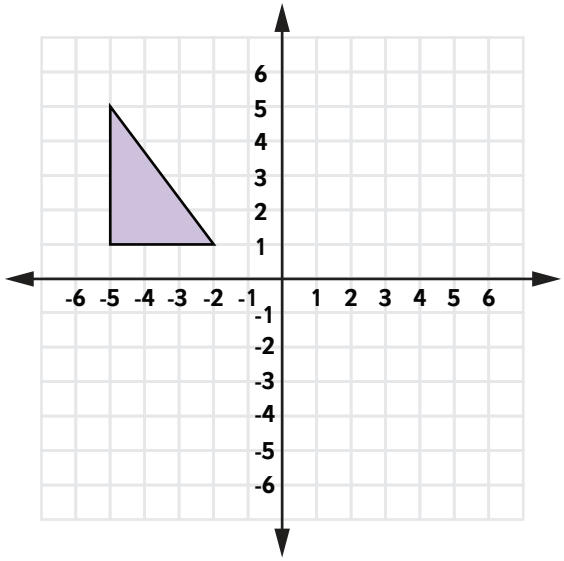
What fraction of the library's books are adult fiction?



Week Ten

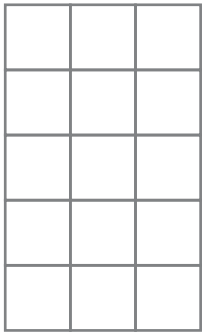
Task 1

Reflect the shape in the x-axis and the y-axis.



Task 2

Shade the diagram to represent the calculation $\frac{2}{3} \times \frac{1}{5}$. Write the answer in its simplest form.

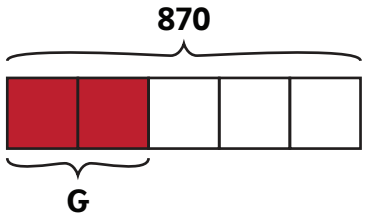


Task 3

Nell needs $\frac{3}{4}$ of a book of 44 stamps.
How many stamps does she need?

Task 4

What is the value of G?



Task 5

Calculate:

$2\frac{1}{2} + \frac{1}{4} - 1 =$
$(1\frac{1}{4} + \frac{1}{3}) \times 3 =$
$(4\frac{2}{3} - \frac{2}{3}) \div 2 =$

Task 6

Convert the mixed numbers to improper fractions and solve the calculations.

$3\frac{6}{7} \times 4 =$
$5\frac{8}{5} \times 2 =$

Week One

Task 1

Find the missing numbers.

85,000 = 80,000 + 5,000
9,190 = 9,000 + 100 + 90
51,347 = 50,000 + 1,000 + 300 + 40 + 7

Task 2

Write the number **384,091** in words.

three hundred and eighty-four thousand, and ninety-one

Task 3

Write the number one hundred and twenty-nine thousand, five hundred and sixteen in numerals.

129,516

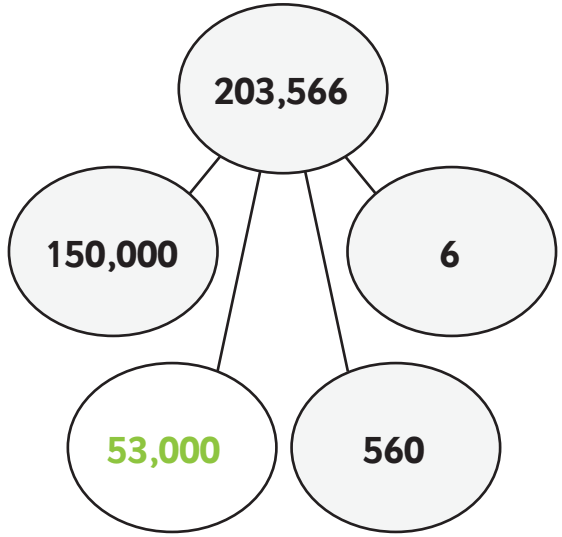
Task 4

Complete the table.

	Add 10	Add 100	Add 1,000
1,459	1,469	1,559	2,459
4,002	4,012	4,102	5,002
8,995	9,005	9,095	9,995

Task 5

Complete the part-whole diagram.



Task 6

Describe the value of the digit 4 in each of the following numbers.

a) 94,055

4 thousands

b) 405,512

4 hundred thousands

c) 845,108

four ten thousands

Week Two

Task 1

Circle the number that matches one million, five hundred and sixty thousand, eight hundred and eight.

1,506,808

1,560,808

1,560,880

1,560,088

1,056,808

Task 2

Use <, > or = to compare these numbers.

284,199	>	99,999
875,300	>	788,488
one million	>	100,009

Task 3

Find a number that is greater than 125,000 but less than 168,000.

e.g. 125,001

Task 4

Find the missing numbers

a) 7,900,490 = 7,000,000 + 900,000 + 400 + 90

b) 8,124,523 = 8,000,000 + 100,000 + 20,000 + 4,000 + 500 + 20 + 3

Task 5

Complete the column sum.

	2	5	0	5	7
+		5	1	4	4
	3	0	2	0	1
	1		1	1	

Task 6

Solve these calculations.

2 – 4 = -2
-1 + 6 = 5
4 – 10 = -6

Week Three

Task 1

A farmer picked 368 apples on Wednesday.
The next day, he picked 112 more than on Wednesday.
On Friday he picked 230 apples less than Thursday.
How many apples did he pick altogether?

1,098

Task 2

I'm thinking of a number. After I subtract 3,296 and add 911, my number is 11,000.

What was my original number?

13,385

Task 3

What number is represented by **CDLXXXIV**?

484

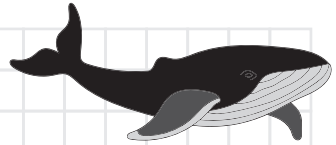
Task 4

Complete the table by rounding.

	to nearest 10	to nearest 100	to nearest 1,000
850	850	900	1,000
1,237	1,240	1,200	1,000
6,666	6,670	6,700	7,000

Task 5

There are 41,194 whales in the Arctic ocean.
11,204 are bowhead whales.
How many are not bowhead whales?



29,990

Task 6

Lily had £32 in her bank account.
A pair of shoes cost her £40.
How much does she have in her account now?

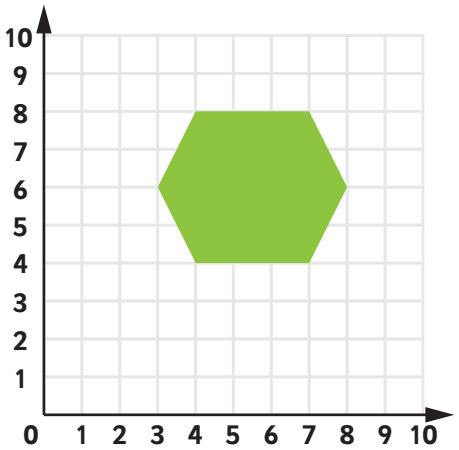
-£8

Week Four

Task 1

Draw the vertices of the polygon with the coordinates (4, 4), (7, 4), (8, 6), (7, 8), (4, 8), (3, 6).
What is the name of the polygon?

hexagon



Task 2

Convert the mixed numbers into improper fractions.

$1\frac{4}{5} = \frac{9}{5}$
$3\frac{2}{7} = \frac{23}{7}$
$4\frac{3}{9} = \frac{39}{9}$ or $\frac{13}{3}$

Task 3

Task 2: Find the missing digits.

	1	8	1	0	5	4
+	7	6	0	2	5	9
	9	4	1	3	1	3

Task 4

Complete the table by rounding.

	to nearest 10,000	to nearest 100,000	to nearest 1,000,000
746,112	750,000	700,000	1,000,000
62,999	60,000	100,000	0
3,501,200	3,500,000	3,500,000	4,000,000

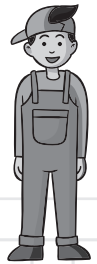
Task 5

Simplify these fractions.

$\frac{8}{12} = \frac{2}{3}$
$\frac{12}{24} = \frac{1}{2}$
$\frac{15}{33} = \frac{5}{11}$
$\frac{40}{120} = \frac{1}{3}$

Task 6

Chris saved £1,603 each month.
How much did he save in 6 months?



£9,618

Week Five

Task 1

Find the equivalent fractions.

a) $\frac{\boxed{5}}{20} = \frac{1}{4}$

b) $\frac{14}{21} = \frac{\boxed{2}}{3}$

c) $\frac{58}{\boxed{100}} = \frac{29}{50}$

Task 2

Convert the improper fractions to mixed numbers.

$\frac{31}{10}$	$= 3\frac{1}{10}$
$\frac{48}{7}$	$= 6\frac{6}{7}$
$\frac{88}{5}$	$= 17\frac{3}{5}$

Task 3

True or false

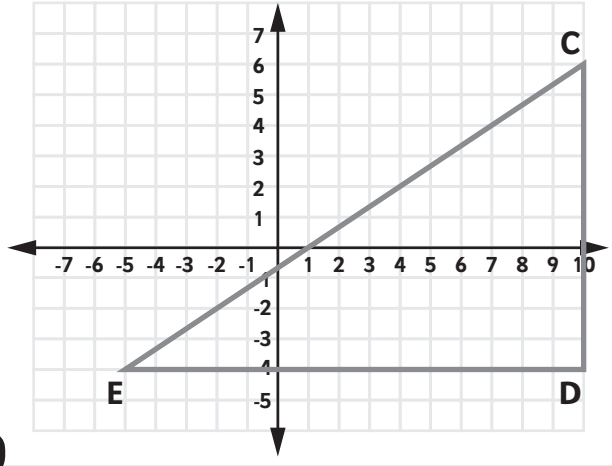
23 x 59 is less than 24 x 58.

True ☑ False ☐

Task 4

Write the coordinates for vertices

C (10, 6), **D** (10, -4) and **E** (-5, -4).



Task 5

Calculate these multiplication sums.

25 x 12 =	300
26 x 12 =	312
25 x 13 =	325
26 x 13 =	338

What do you notice?

e.g. add 12 or 13 to previous calculation

Task 6

What is the remainder from this calculation?

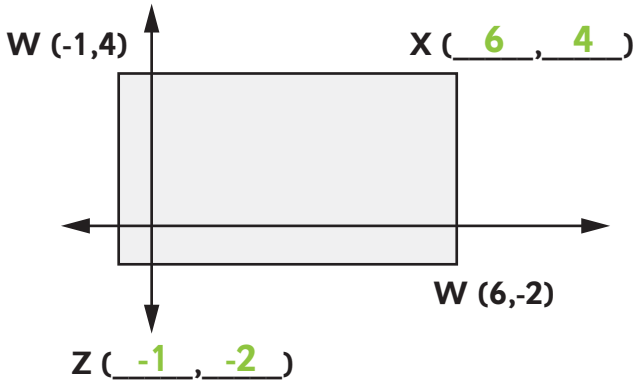
678 ÷ 23 = 29 r. 11

11

Week Six

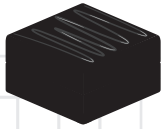
Task 1

Work out the missing coordinates of the rectangle.



Task 2

Mohammad used 14 chocolate chips per brownie.
He made 2,990 brownies.
How many chocolate chips did he use in total?



41,860

Task 3

True or false

40 has double the number of factors as 20.

True ☐ False ☑

Task 4

Use short division to solve these calculations.

	1	5	8
4	6	$^{2}3$	$^{3}2$

	0	9	6	6 r 2
8	7	$^{7}7$	$^{5}3$	$^{5}0$

Task 5

Calculate 32 x 854.

27,328

Task 6

The farmer puts eggs in cartons of 16.
On one day, their hens laid 368 eggs.
How many cartons of eggs did they fill?

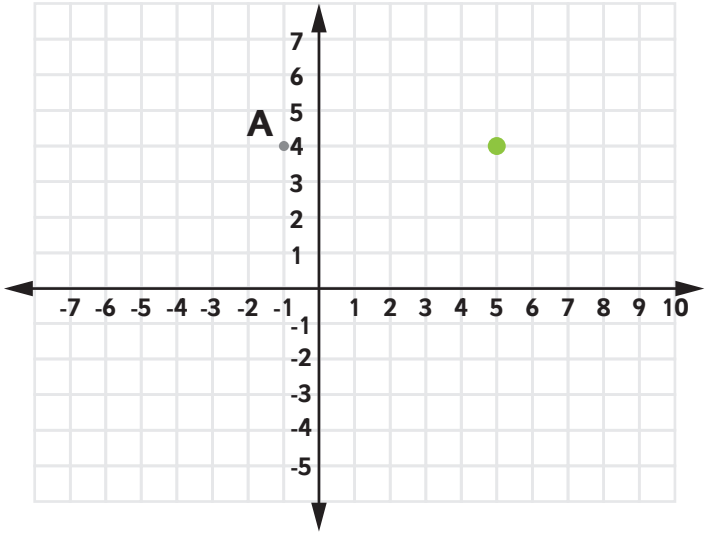
```
   023
16|368
  -0
   36
  -32
    48
  - 48
     0
```

23 cartons

Week Seven

Task 1

Translate A 6 units right.



Task 2

Use <, > or = to compare the fractions.

$\frac{1}{4}$	<	$\frac{1}{3}$
$\frac{2}{5}$	<	$\frac{1}{2}$
$\frac{5}{7}$	<	$\frac{7}{8}$
$\frac{11}{12}$	>	$\frac{10}{13}$

Task 3

List 3 common multiples of 3 and 7.

21, 42, 63

Task 4

Complete the sums.

$1\frac{3}{7} + 2\frac{1}{5} =$	$3\frac{22}{35}$
$4\frac{1}{2} + 3\frac{2}{3} =$	$8\frac{1}{6}$
$5\frac{2}{5} + 1\frac{3}{4} =$	$7\frac{3}{20}$

Task 5

True or false

$\frac{1}{4} + \frac{3}{10}$ is greater than $\frac{1}{2} + \frac{1}{5}$.

True ☐ False ☑

Task 6

Use long division to calculate 8,302 ÷ 7.

```
  1186
7|8302
 7
 13
 07
  60
  56
   42
   42
    0
```

1,186

Week Eight

Task 1

Rupert has $\frac{4}{5}$ of a cereal bar.

He shares it equally with his brother.

What fraction of a cereal bar do they each get?

$\frac{2}{5}$

Task 2

Jim has 42 pens.
He shares them equally with the people at his table. How many people could be at his table?

Factors of 42 = 1, 2, 3, 6, 7 14, 21, 42
Cannot be 1 as that would just be Jim.

Task 3

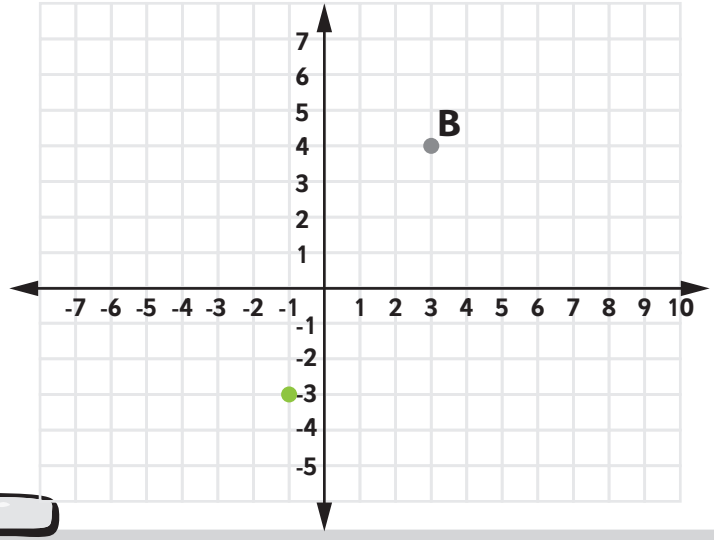
Solve the calculation.

$$8\frac{2}{3} - \frac{1}{15} = 8\frac{9}{15}$$

simplified to $8\frac{3}{5}$

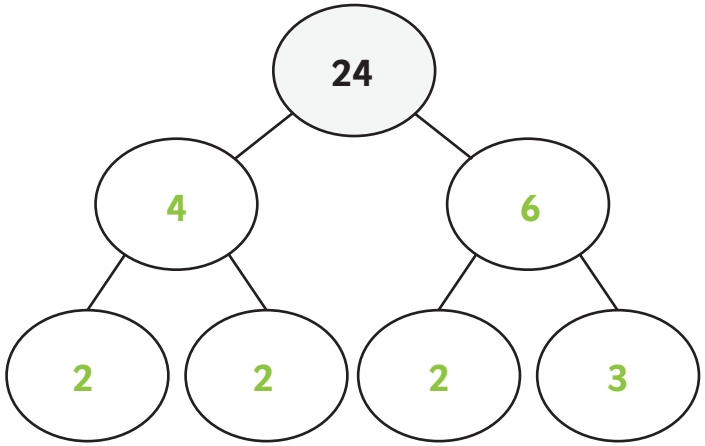
Task 4

Translate B 4 units left and 7 units down.



Task 5

Complete the prime factor tree for 24.



Task 6

Find the common denominators of each pair of fractions to solve the calculations.

$\frac{2}{3} + \frac{4}{7} = \frac{26}{21}$ or $1\frac{5}{21}$
$\frac{6}{9} - \frac{2}{5} = \frac{12}{45}$ or $\frac{4}{15}$
$\frac{9}{10} - \frac{1}{4} - \frac{1}{6} = \frac{29}{60}$

Week Nine

Task 1

Jenny has completed this calculation.
Fix her errors.

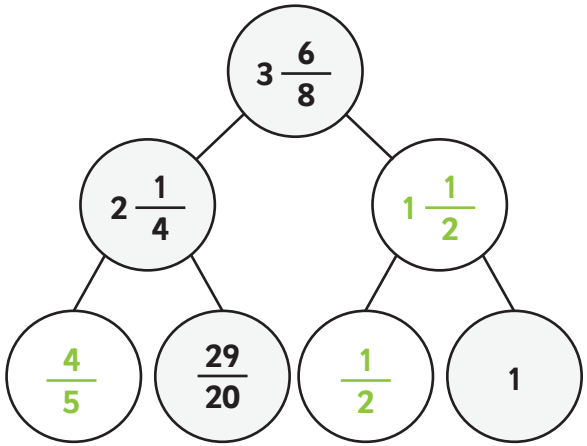
44 – (2 x 15) ÷ 2 = 315

$44 - 30 \div 2 = \_\_\_\_$

$44 - 15 = 29$

Task 2

Complete the part-whole model.



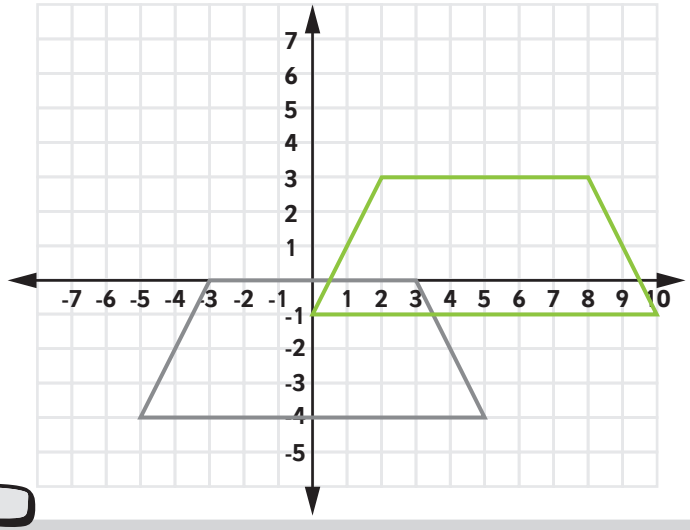
Task 3

Use <, > or = to complete the statements.

3 squared	>	2 cubed
6 cubed	>	215
169	=	13 squared

Task 4

Translate the shape 5 units to the right and 3 units up.



Task 5

Solve these division calculations.

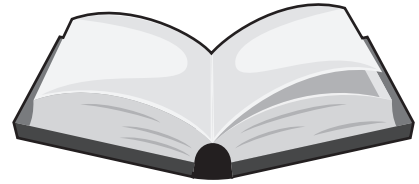
$\frac{1}{2} \div 4 = \frac{1}{8}$	
$\frac{1}{6} \div 3 = \frac{1}{18}$	
$\frac{3}{4} \div 2 = \frac{3}{8}$	

Task 6

The library's books are $\frac{2}{4}$ children's fiction, $\frac{3}{9}$ non-fiction and the rest are adult fiction.

What fraction of the library's books are adult fiction?

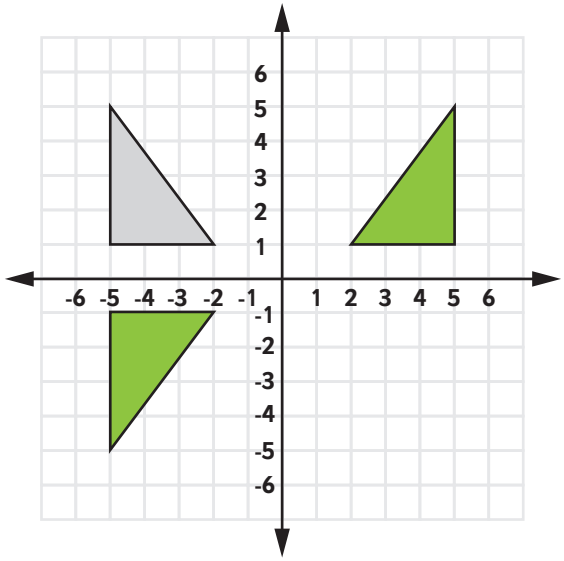
$\frac{1}{6}$



Week Ten

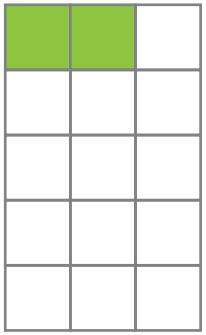
Task 1

Reflect the shape in the x-axis and the y-axis.



Task 2

Shade the diagram to represent the calculation $\frac{2}{3} \times \frac{1}{5}$. Write the answer in its simplest form.



$\frac{2}{15}$

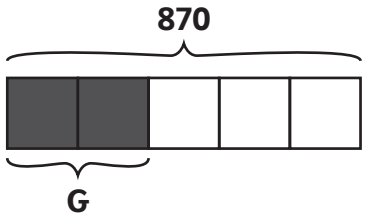
Task 3

Nell needs $\frac{3}{4}$ of a book of 44 stamps.
How many stamps does she need?

33 stamps

Task 4

What is the value of G?



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Task 5

Calculate:

$2\frac{1}{2} + \frac{1}{4} - 1 =$	$1\frac{3}{4}$
$(1\frac{1}{4} + \frac{1}{3}) \times 3 =$	$4\frac{3}{4}$
$(4\frac{2}{3} - \frac{2}{3}) \div 2 =$	2

Task 6

Convert the mixed numbers to improper fractions and solve the calculations.

$3\frac{6}{7} \times 4 =$	$\frac{108}{7} = 15\frac{3}{7}$
$5\frac{8}{5} \times 2 =$	$\frac{66}{5} = 13\frac{1}{5}$