

HOME LEARNING

Year 7

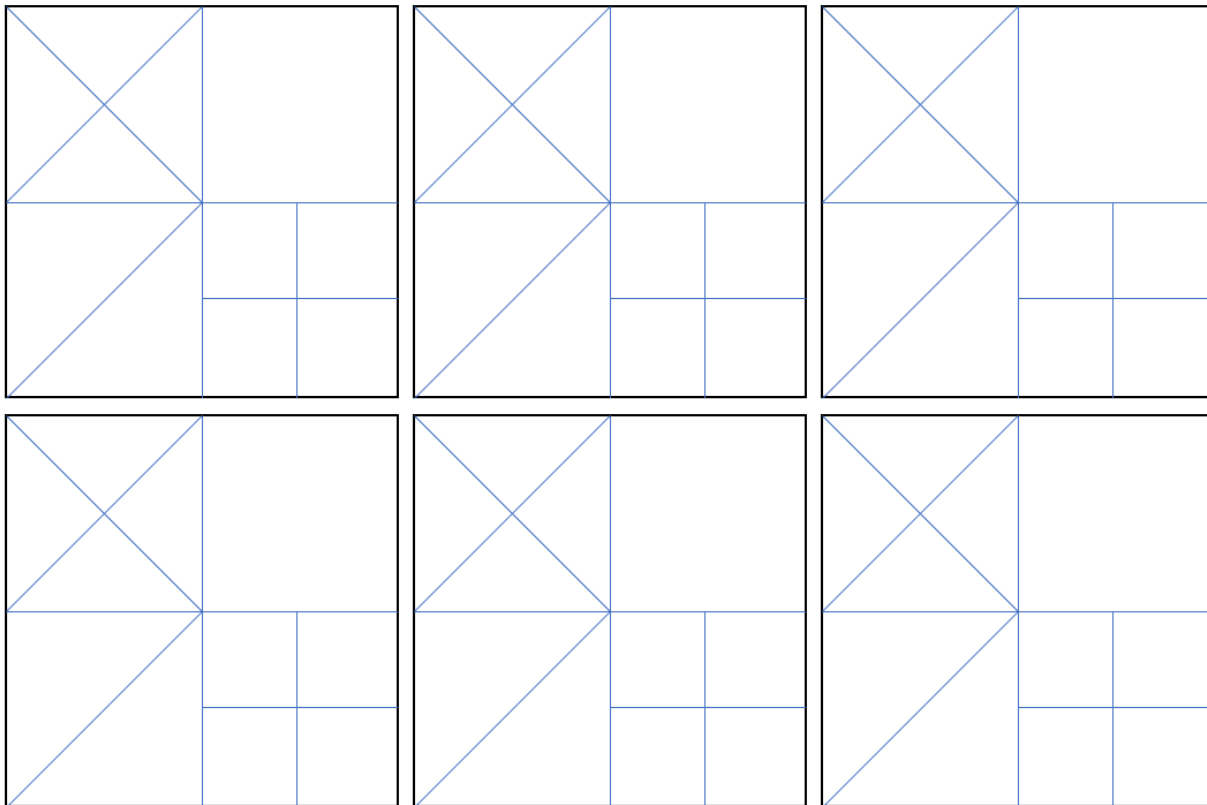
Task 4

Focus for this week: Find fractions of shapes, amounts and numbers. Find missing fractions.

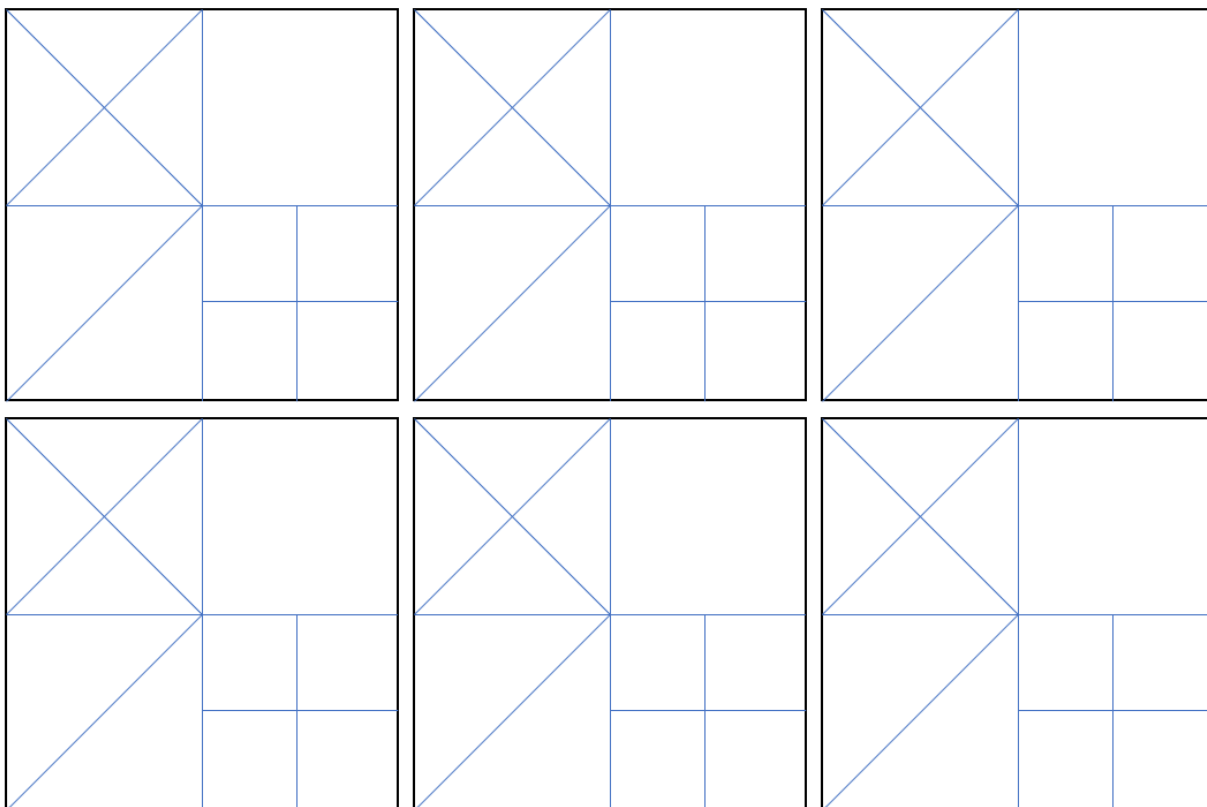
Essential learning:	<ul style="list-style-type: none">• Recognise halves and quarters• Use the words half and quarter
Practising:	<ul style="list-style-type: none">• Recognise thirds and fifths• Use the words third and fifth
Learning about:	<ul style="list-style-type: none">• Find missing fractions• Find fractions of shapes, amounts and numbers
Extension:	<ul style="list-style-type: none">• Find fractions of quantities

Maths Worksheet 1: Recognise halves and quarters: Use the words half and quarter

Task 1: Colour half of each shape, in different ways. How do you know each one has had half coloured in? Be as creative as you can.



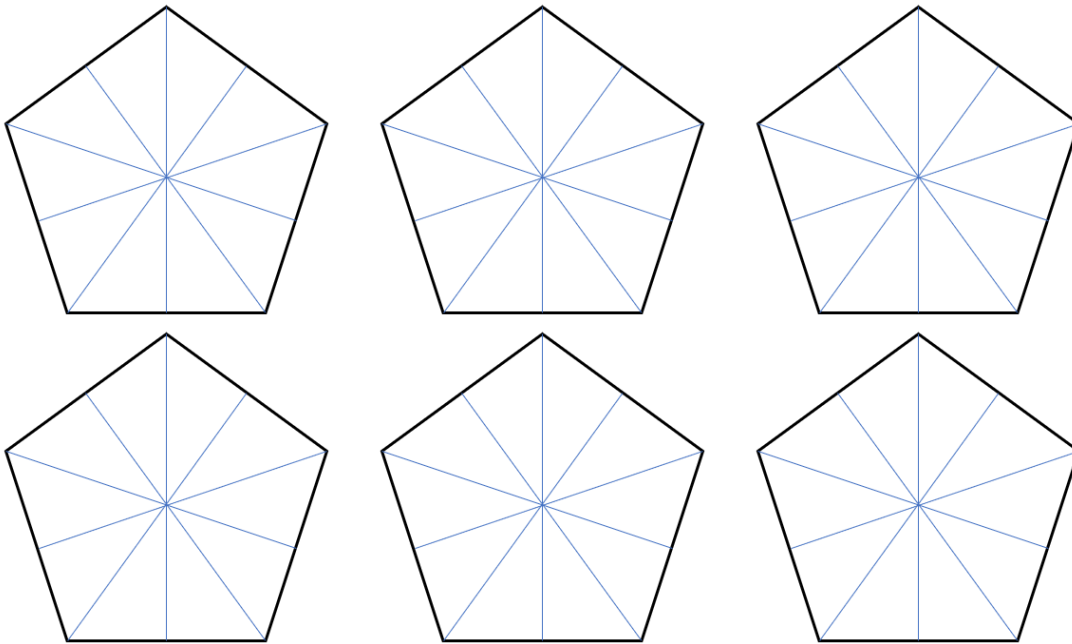
Task 2: Colour a quarter of each shape, in different ways. How do you know each one has quarter half coloured in? Be as creative as you can.



Email completed worksheets to me at acroft@bower-grove.kent.sch.uk . Each good attempt earns a golden token.

Maths Worksheet 2: Recognise thirds and fifths: Use the words third and fifth

Task 1: Colour a fifth of each shape, in different ways. How do you know each one has a fifth coloured in? Be as creative as you can.



Task 2: Share amounts of things into thirds

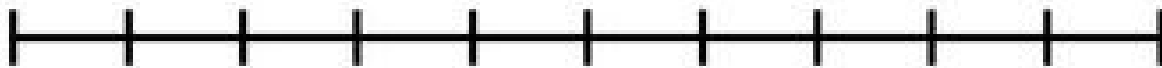
- a) Share 30 counters into three groups. How many in each group?
- b) Share 24 counters into three groups. How many in each group?
- c) Share 36 counters into three groups. How many in each group?
- d) Share 42 counters into three groups. How many in each group?

Task 3: Find a fifth of amounts of money


- a) What is $\frac{1}{5}$ of 10p?
- b) What is $\frac{1}{5}$ of 25p?
- c) What is $\frac{1}{5}$ of 30p?
- d) What is $\frac{1}{5}$ of 40p?
- e) What is $\frac{1}{5}$ of 50p?
- f) What is $\frac{1}{5}$ of 65p?


Maths Worksheet 3: Find missing fractions

This line has been split into 10 equal parts. Each part is a tenth. If we put a counter on one space, there would be 9 blank spaces. We can say $\frac{1}{10} + \frac{9}{10} = 1$




Task 1. Use the number-lines to complete the number sentences.

1) $\frac{1}{5} + \frac{\quad}{5} = 1$ 

2) $\frac{1}{9} + \frac{\quad}{9} = 1$ 

3) $\frac{1}{7} + \frac{\quad}{7} = 1$ 

4) $\frac{1}{8} + \frac{\quad}{8} = 1$ 

5) $\frac{1}{3} + \frac{\quad}{3} = 1$ 

6) $\frac{1}{6} + \frac{\quad}{6} = 1$ 

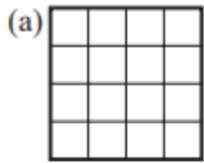
7) $\frac{2}{7} + \frac{\quad}{7} = 1$ 

8) $\frac{1}{7} + \frac{3}{7} + \frac{\quad}{7} = 1$ 

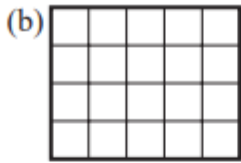
9) $\frac{1}{7} + \frac{5}{7} + \frac{\quad}{7} = 1$ 

Maths Worksheet 4: Find fractions of shapes, amounts and numbers

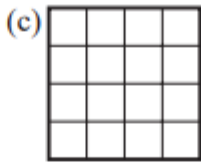
Task 1: Shade each shape with the fraction stated:



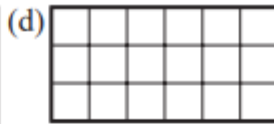
$$\frac{1}{4}$$



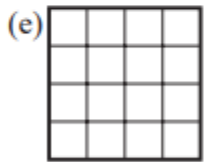
$$\frac{4}{5}$$



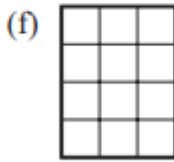
$$\frac{7}{8}$$



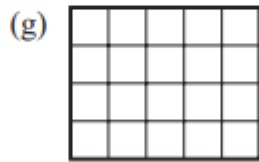
$$\frac{2}{3}$$



$$\frac{7}{16}$$



$$\frac{9}{12}$$



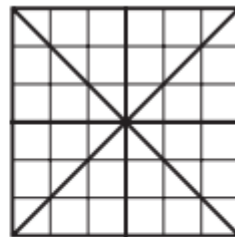
$$\frac{7}{10}$$



$$\frac{13}{20}$$

Task 2:

- (a) Copy this shape.
- (b) Shade $\frac{3}{8}$ of the shape.
- (c) Shade another $\frac{2}{8}$ of the shape.
- (d) What is the total fraction now shaded?
- (e) How much is left unshaded?



Task 3:

Sarah shades $\frac{3}{7}$ of a shape. What fraction of the shape is left unshaded?

Task 4:

A cake is divided into 12 equal parts. John eats $\frac{3}{12}$ of the cake and Kate eats another $\frac{1}{12}$. What fraction of the cake is left?

Task 5:

A car park contains 20 spaces. There are 17 cars parked in the car park.

- (a) What fraction of the car park is full?
- (b) What fraction of the car park is empty?

Maths Worksheet 5: Fractions of quantities

1. Find:

(a) $\frac{1}{2}$ of 12

(b) $\frac{1}{4}$ of 8

(c) $\frac{1}{5}$ of 15

(d) $\frac{1}{3}$ of 12

(e) $\frac{1}{5}$ of 30

(f) $\frac{1}{4}$ of 40

(g) $\frac{1}{7}$ of 14

(h) $\frac{1}{8}$ of 64

(i) $\frac{1}{8}$ of 40

(j) $\frac{1}{3}$ of 24

(k) $\frac{1}{4}$ of 32

(l) $\frac{1}{9}$ of 36

2. Find:

(a) $\frac{3}{4}$ of 24

(b) $\frac{4}{5}$ of 20

(c) $\frac{3}{7}$ of 14

(d) $\frac{2}{9}$ of 18

(e) $\frac{5}{6}$ of 30

(f) $\frac{4}{7}$ of 28

(g) $\frac{3}{5}$ of 15

(h) $\frac{7}{9}$ of 45

(i) $\frac{3}{8}$ of 64

(j) $\frac{5}{9}$ of 36

(k) $\frac{3}{5}$ of 45

(l) $\frac{7}{8}$ of 56

3. In a test there are 30 marks. Nasir gets $\frac{3}{5}$ of the marks. How many marks does he get?

4. In a school $\frac{1}{2}$ of the pupils are girls. There are 382 pupils in the school. How many girls are there in the school?

5. In a class there are 32 pupils. Of these, $\frac{3}{8}$ come to school by bus. How many pupils come to school by bus?

6. In a school, $\frac{3}{10}$ of the pupils have pets. There are 510 pupils in the school.

(a) How many of them have pets?

(b) How many of them do not have pets?