

Name .....

1 Circle the statements that are correct.

$$2 + 3 = 1 + 4$$

$$4 - 1 = 2 + 2$$

$$5 + 2 = 3 + 3$$

$$8 - 3 = 6 - 2$$

$$9 - 6 = 1 + 2$$

$$1 + 4 = 10 - 5$$

2 Fill in the missing numbers.

a)  $13 + 4 = 11 + \dots\dots$

b)  $8 + 7 = 10 + \dots\dots$

c)  $9 + 9 = \dots\dots + 8$

d)  $12 + 8 = \dots\dots + 6$

3 Fill in the missing numbers.

a)  $10 - 4 = 8 - \dots\dots$

b)  $15 - 3 = 18 - \dots\dots$

c)  $15 - 5 = \dots\dots - 1$

d)  $18 - 2 = \dots\dots - 4$

4 Fill in the missing numbers.

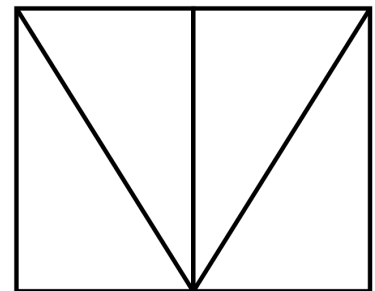
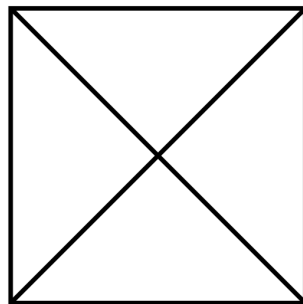
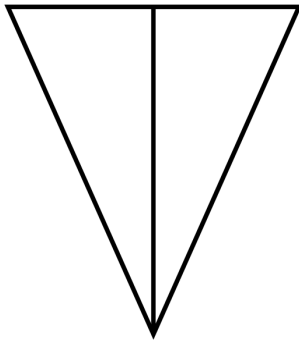
a)  $10 + 4 = 8 + 1 + \dots\dots$       b)  $15 + 5 = 14 - 3 + \dots\dots$

c)  $20 - 7 = 8 + 2 + \dots\dots$

Identify or show one half of a quantity up to 20	Component 3	Entry 1.2
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Name .....

1 Shade in one half of the following shapes.



2 Draw a ring round **one half** of the counters.



3 Look at the stars.

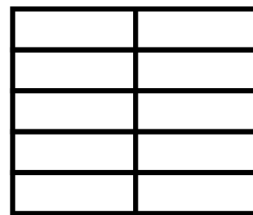
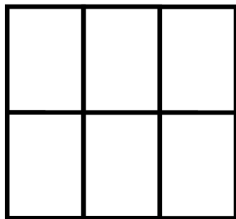


Tick the correct statement.

Half of the stars have stripes

Half of the stars are blank

4 Shade in one half of the following.



**Work out half of an even number up to 20**

**Component 3**

**Entry 1.3**

Name .....

1 Work out

a) half of 6 = .....

b) half of 10 = .....

c) half of 14 = .....

d) half of 16 = .....

2 Work out

a)  $\frac{1}{2}$  of 12 = .....

b)  $\frac{1}{2}$  of 18 = .....

c)  $\frac{1}{2}$  of 20 = .....

d)  $\frac{1}{2}$  of 2 = .....

3 Jed has 16 sweets.  
He gives half of them to Sal.  
How many sweets does Jed have left? .....

4 Taylor has 14 cakes.  
She sells half of them.  
How many cakes does she sell? .....

5 James thinks of a number.  
Half of his number is 7.  
What number is he thinking of? .....

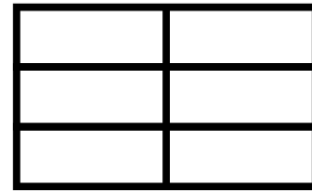
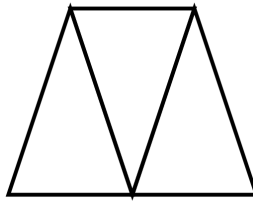
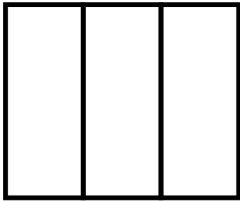
Identify or show one third or one quarter of a quantity up to 24

Component 3

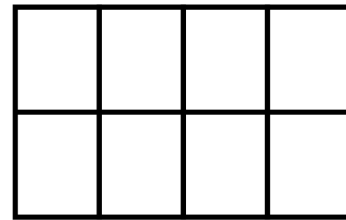
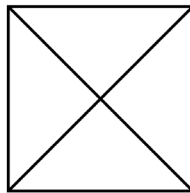
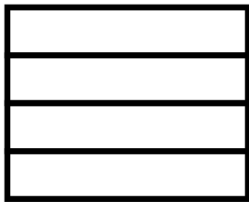
Entry 2.1

Name .....

1 Shade in one third of each of shape.



2 Shade in one quarter of each shape.



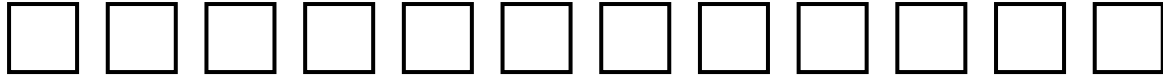
3 Look at the counters.



Circle the correct word.

**One third / quarter** of the counters are shaded.

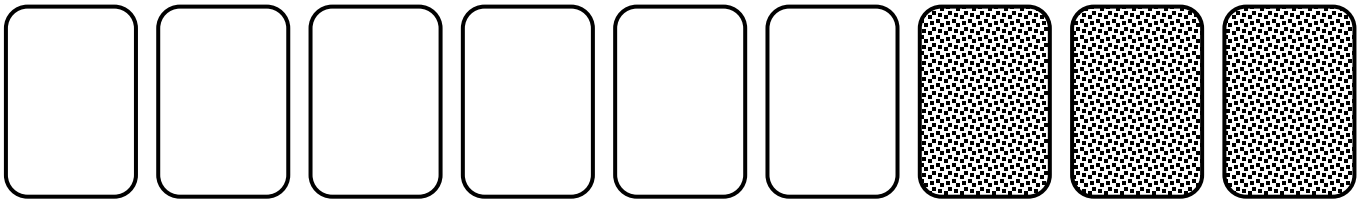
4 Colour one quarter of the tiles.



5 Colour one third of the counters.



6 What fraction of the cards are **not** blank?



.....



**Work out one third or one quarter of a number up to 24**

**Component 3**

**Entry 2.2**

Name .....

**1 Work out**

a) one third of 6 = .....

b) one third of 15 = .....

c) one quarter of 8 = .....

d) one quarter of 20 = .....

**2 Work out**

a)  $\frac{1}{3}$  of 12 = .....

b)  $\frac{1}{3}$  of 18 = .....

c)  $\frac{1}{4}$  of 16 = .....

d)  $\frac{1}{4}$  of 24 = .....

- 3 Morris has 9 sweets.  
He gives one third of them to Louis.

How many sweets does he give to Louis? .....

- 4 Tim has 12 stamps.  
He uses one quarter of them.

How many stamps does he use? .....

- 5 Emily has 24 cakes.  
She sells one third of the cakes.

How many cakes does she sell? .....

Name .....

1 Look at the patterns below.

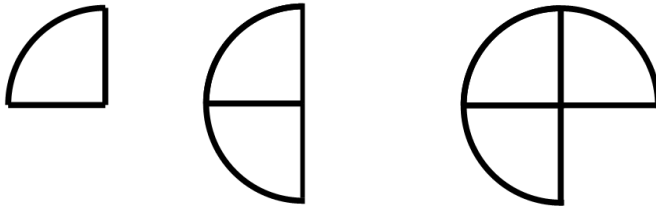
Draw the next picture.

a)



.....

b)



.....

2 Work out the next number in each pattern.

a)  $\frac{1}{2}$    1    $1\frac{1}{2}$    2

.....

b)  $\frac{3}{4}$    1    $1\frac{1}{4}$     $1\frac{1}{2}$

.....

3 Fill in the missing numbers in the patterns.

a)  $4\frac{1}{4}$     $4\frac{2}{4}$    .....   5   .....

b)  $1\frac{1}{3}$     $1\frac{2}{3}$    2    $2\frac{1}{3}$    .....

<b>Work out amounts of 2, 3 or 4 times the size of a given amount</b>	<b>Component 3</b>	<b>Entry 2.4</b>
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Name .....

1 Complete the table to show the double of each of the numbers.

The first one has been done for you.

	Double the number
8	16
14	
27	
35	
46	

2 Zain has 18 cards.

a) Harry has three times as many as Zain.

How many does Harry have?

.....

b) Alex has four times as many as Zain.

How many does Alex have?

.....

3 Dev raised £33 for charity.

Andy raised twice as much.

How much did Andy raise?

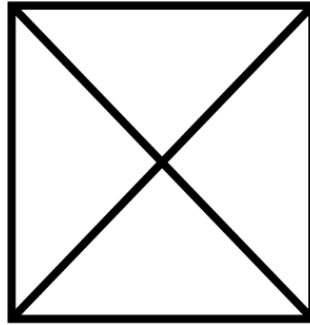
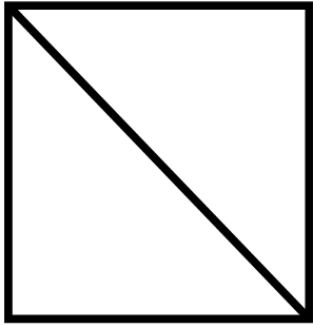
.....

4 Fill in the missing number.

£45 is .....times as much as £15

Recognise the equivalence of $\frac{1}{2}$ and $\frac{2}{4}$	Component 3	Entry 2.5
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1 Look at the shapes.



- a) Shade in  $\frac{1}{2}$  of each shape.
- b) Fill in the missing number.

$$\frac{1}{2} = \frac{\square}{4}$$

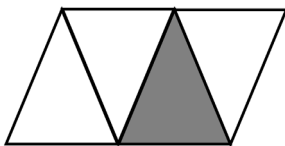
2 Decide which of the following are true/false.  
Circle your answer.

a)



one half of this shape is shaded      TRUE / FALSE

b)



one half of this shape is shaded      TRUE / FALSE

3 Jen and Dari want to share some games equally.

Jen takes  $\frac{2}{4}$  of the games and Dari takes  $\frac{1}{2}$  of the games.

Is this a fair way to share the games?  
Show how you decide.

.....  
.....

2.5		1.1	
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Identify or show unit fractions up to one tenth of a quantity up to 100	Component 3	Entry 3.1
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Name .....

1 Shade in

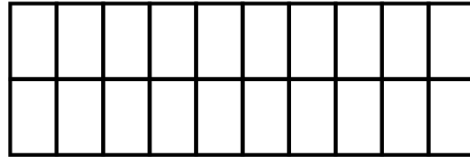
a) one tenth



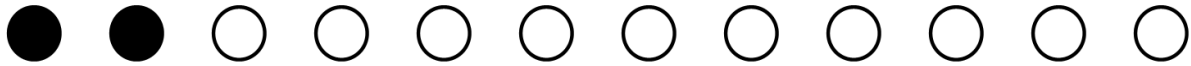
b) one eighth



c) one tenth



2 Look at the counters.



Circle the correct words.

**One fifth / one sixth** of the counters are shaded

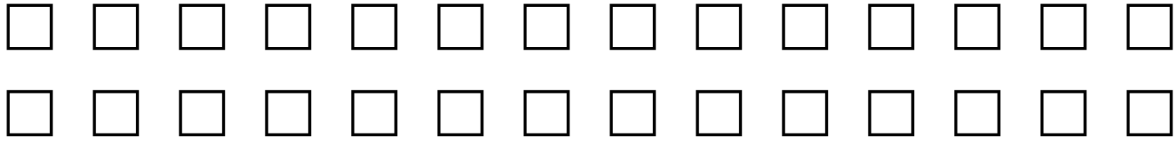
3 Look at the counters.



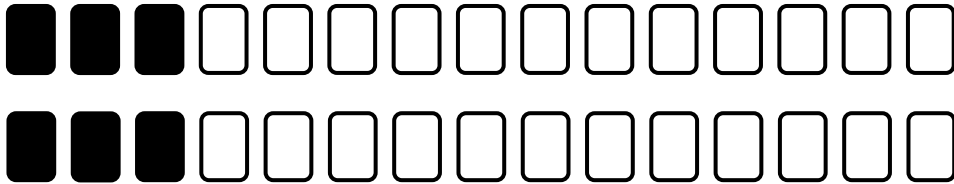
Circle the correct words.

**One fifth / one tenth** of the counters are shaded

4 Colour in one seventh of the tiles.



5 What fraction of the cards are shaded?



.....

3.1		2.1		1.2	
-----	--	-----	--	-----	--

**Work out unit fractions to one tenth of a number up to 100****Component 3****Entry 3.2**

Name .....

1 Work out

a) one fifth of 45 = .....

b) one tenth of 90 = .....

c) one eighth of 64 = .....

d) one ninth of 27 = .....

2 Work out

a)  $\frac{1}{5}$  of 35 = .....

b)  $\frac{1}{10}$  of 80 = .....

c)  $\frac{1}{6}$  of 60 = .....

d)  $\frac{1}{8}$  of 48 = .....

3 Jack has 36 stamps.

He uses one third of them.

How many stamps does he use? .....

4 Tom has 50 cards.

He gives one tenth of them away.

How many cards does he give away?.....


3.2		2.2		1.3	
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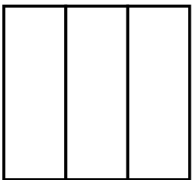
<b>Identify or show any number of thirds, quarters, fifths or tenths of a quantity</b>	<b>Component 3</b>	<b>Entry 3.3</b>
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Name .....

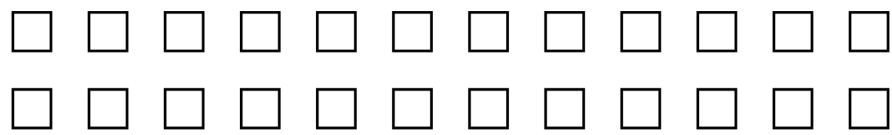
1 Shade in

a) three tenths 

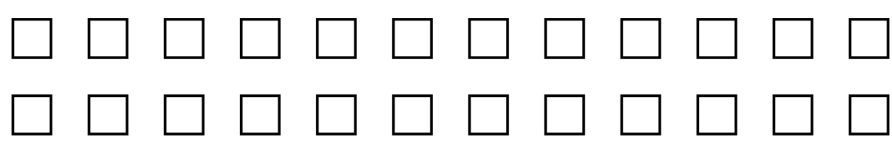
b) two fifths 

c) two thirds 

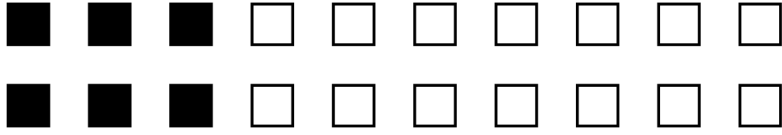
2 Shade in three quarters of the tiles.



3 Shade in two thirds of the tiles.



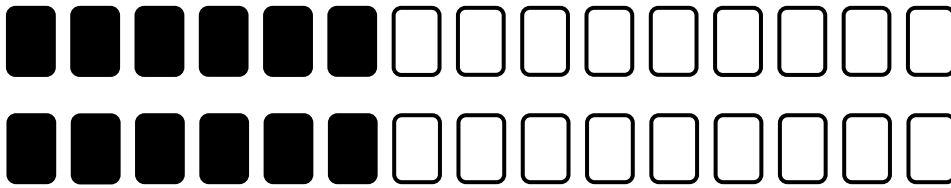
4 Look at the tiles.



Circle the correct words.

**Three tenths / six tenths** of the counters are shaded.

5 What fraction of the cards are shaded?



.....

<b>Work out any number of thirds, quarters, fifths and tenths of an amount</b>	<b>Component 3</b>	<b>Entry 3.4</b>
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Name .....

1 Work out

a) two fifths of 45 = .....

b) seven tenths of 70 = .....

c) two thirds of 90 = .....

d) three quarters of 60 = .....

2 Work out

a)  $\frac{3}{5}$  of 35 = .....

b)  $\frac{9}{10}$  of 80 = .....

c)  $\frac{2}{3}$  of 60 = .....

d)  $\frac{3}{4}$  of 72 = .....

3 Jake has £80

He spends three quarters of his money.

How much does Jake spend? .....

4 Tom has 55 cards.

He gives three fifths of them away.

How many cards does he give away?.....



**Recognise and identify equivalent fractions**

**Component 3**

**Entry 3.5**

Name .....

1 Circle the fractions that are equivalent to  $\frac{1}{2}$

$$\frac{2}{4}$$

$$\frac{2}{5}$$

$$\frac{3}{6}$$

$$\frac{4}{8}$$

$$\frac{6}{10}$$

2 Circle the fractions that are equivalent to  $\frac{1}{3}$

$$\frac{2}{5}$$

$$\frac{2}{6}$$

$$\frac{3}{6}$$

$$\frac{3}{8}$$

$$\frac{3}{9}$$

3 Circle the fractions that are equivalent to  $\frac{1}{4}$

$$\frac{2}{6}$$

$$\frac{2}{8}$$

$$\frac{3}{10}$$

$$\frac{3}{12}$$

$$\frac{4}{14}$$

4 Fill in the missing numbers to make the fractions equivalent.

a)  $\frac{1}{5} = \frac{\quad}{10}$

b)  $\frac{1}{2} = \frac{\quad}{10}$

c)  $\frac{1}{4} = \frac{\quad}{40}$

d)  $\frac{1}{3} = \frac{\quad}{12}$

e)  $\frac{1}{4} = \frac{\quad}{20}$

f)  $\frac{1}{2} = \frac{\quad}{18}$

5 Fill in the missing numbers to make the fractions equivalent.

a)  $\frac{1}{2} = \frac{8}{\quad}$

b)  $\frac{1}{2} = \frac{12}{\quad}$

c)  $\frac{1}{4} = \frac{6}{\quad}$

d)  $\frac{1}{3} = \frac{10}{\quad}$

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

f)  $\frac{1}{2} = \frac{50}{\quad}$

3.5		2.5		1.1	
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Add and subtract fractions with the same denominator within one whole

Component 3

Entry 3.6

Name .....

1 Work out

a)  $\frac{1}{5} + \frac{2}{5} = \frac{\quad}{5}$

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

c)  $\frac{2}{4} + \frac{1}{4} = \frac{\quad}{4}$

d)  $\frac{2}{5} + \frac{2}{5} = \frac{\quad}{5}$

e)  $\frac{1}{6} + \frac{5}{6} = \frac{\quad}{6}$

f)  $\frac{3}{8} + \frac{2}{8} = \frac{\quad}{8}$

2 Work out

a)  $\frac{7}{8} - \frac{1}{8} = \frac{\quad}{8}$

b)  $\frac{2}{3} - \frac{1}{3} = \frac{\quad}{3}$

c)  $\frac{4}{5} - \frac{2}{5} = \frac{\quad}{5}$

d)  $\frac{5}{6} - \frac{1}{6} = \frac{\quad}{6}$

e) ...  $\frac{9}{10} - \frac{7}{10} = \frac{\quad}{10}$

f)  $\frac{3}{8} - \frac{2}{8} = \frac{\quad}{8}$

## 3 Work out

a)  $\frac{5}{8} + \frac{1}{8} = \text{—}$

b)  $\frac{5}{7} - \frac{2}{7} = \text{—}$

c)  $\frac{3}{10} + \frac{3}{10} = \text{—}$

d)  $\frac{7}{8} - \frac{3}{8} = \text{—}$

e)  $\frac{3}{10} + \frac{6}{10} = \text{—}$

f)  $\frac{3}{8} + \frac{2}{8} = \text{—}$

<b>Work out amounts 5, 8 or 10 times the size of a given amount</b>	<b>Component 3</b>	<b>Entry 3.7</b>
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Name .....

1 Work out 5 times the following amounts.

- a) 4 .....
- b) 10 .....
- c) 15 .....
- d) 45 .....

2 Work out 10 times the following amounts.

- a) 7 .....
- b) 15 .....
- c) 24 .....
- d) 59 .....

3 Work out 8 times the following amounts.

- a) 5 .....
- b) 21 .....
- c) 35.....
- d) 52 .....

4 Ben sends 25 texts.

His brother James sends five times as many texts.

How many texts does James send?

.....

5 Amy raises £34 in a sponsored swim.

Emily raises ten times as much as Amy.

How much does Emily raise?

.....