Day 1

Maths- 5 a day

1. What is 12 more than 24? _____

2. Draw the number 324 using dienes.

3. What shape is this? _____

4. How many obtuse angles (greater than right angles) does the shape in question 3 have? _____
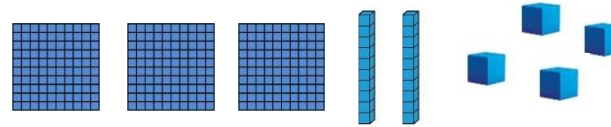
5. Write all the **three** digit numbers you can make from 0, 2, 4.

_____

_____

Day 1 ANSWERS   Maths- 5 a day

1. What is 12 more than 24? ___36___

2. Draw the number 324 using dienes.

3. What shape is this?   _Regular pentagon_

4. How many obtuse angles (greater than right angles) does the shape in question 3 have? ___2___

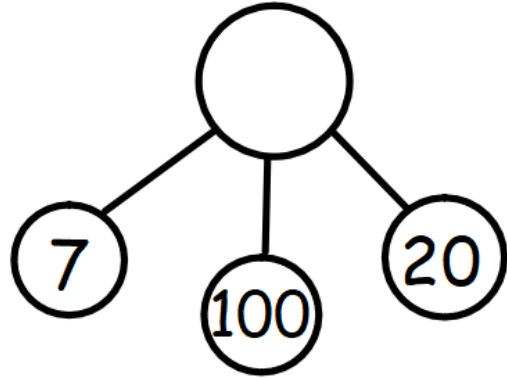5. Write all the **three** digit numbers you can make from 0, 2, 4.

240   204   420   402

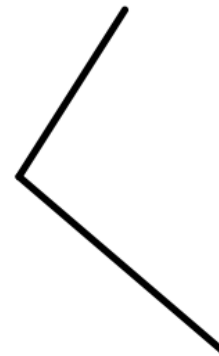# Day 2   Maths- 5 a day

1. Complete this part part whole.

7   100   20

2. What is the name of a shape with 8 sides?

_____

3. $14 \div 7 =$

4. Complete this irregular pentagon.

5. What is 13 less that 25? _____

Day 2 ANSWERS

Maths- 5 a dav

1. Complete this part part whole.

```
      (127)
   /    |    \
 (7) (100) (20)
```
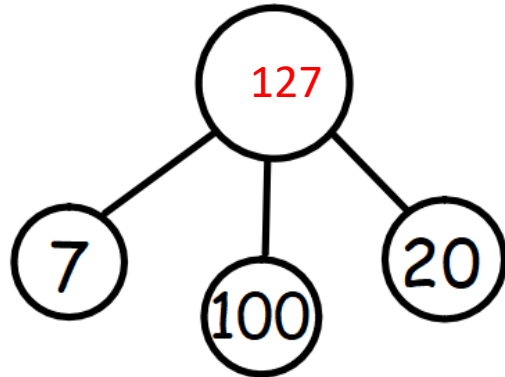
2. What is the name of a shape with 8 sides?

_____ *Hexagon* _____

3. 14 ÷ 7 = 2

4. Complete this irregular pentagon.

3 more lines to make a total of 5

5. What is 13 less that 25? ___12___

Day 3

Maths- 5 a day
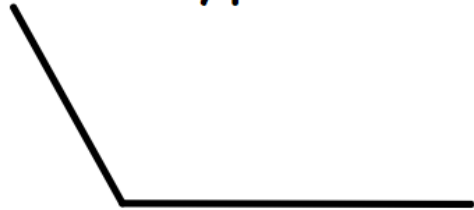
1. 35 ÷ 7 = _____

2. Complete the dienes to show 347.

3. What type of angle is this? _____

4. How many tens are there in 80? _____

5. What is 11 less than 32? _____

Day 3 ANSWERS

Maths- 5 a day

1. 35 ÷ 7 = __5__

2. Complete the dienes to show 347.

3. What type of angle is this? ____*obtuse*____
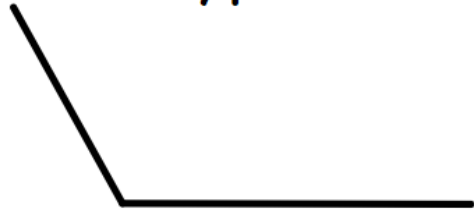
4. How many tens are there in 80? __8__

5. What is 11 less than 32? __21__

Day 4

Maths- 5 a day

1. 12 x 5 = _____

2. What number is shown by the place value counters?

 _____

3. Katy has 2 tens, 4 hundreds and 7 ones. What number does she have? _____

4. How many angles does this shape have?

_____

5. Name the shape in question 4. _____

Day 4 ANSWERS

Maths- 5 a day

1. 12 x 5 = ___5___

2. What number is shown by the place value counters?

   ___213___

3. Katy has 2 tens, 4 hundreds and 7 ones. What number does she have? ___427___

4. How many angles does this shape have?

   ___4_____

5. Name the shape in question 4. ___Square (make sure you have spelt it correctly!)___

Day 5

Maths- 5 a day

Watch this Supermovers video to practise the 3 times table.
Click on the picture below or use the link.

https://www.bbc.co.uk/teach/supermovers/ks2-maths-the-3-times-table/z6sw382
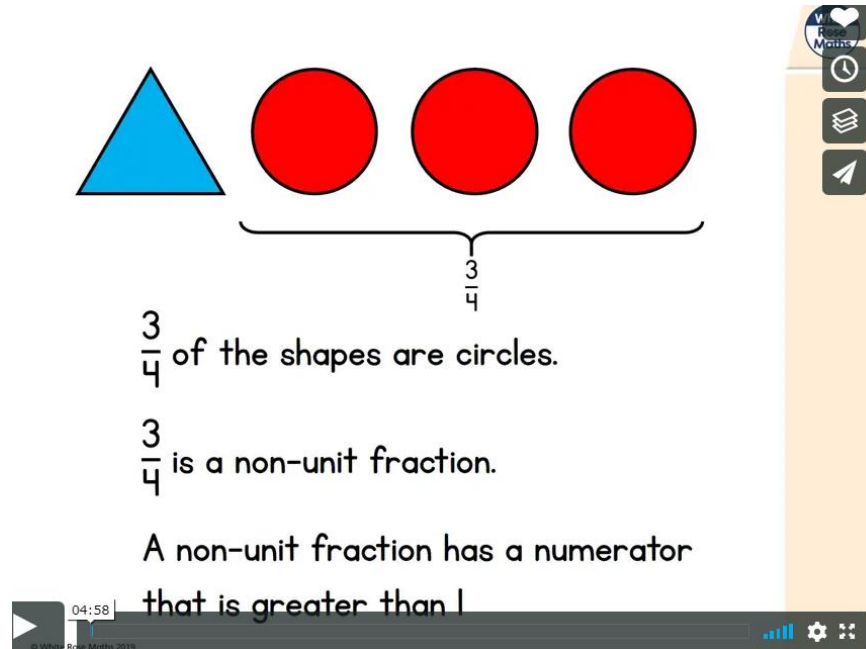
Year 3 Fractions

Lesson 1

Watch this video about unit and non-unit fractions:

https://vimeo.com/418151464

Now, try the questions on the following slides:

1 Write fractions to complete the sentences.

a) ☐ of the counters are yellow.

b) ☐ of the counters are red.

2 Write fractions to complete the sentences.

a) ☐ of the tower is green.

b) ☐ of the tower is yellow.

c) ☐ of the tower is blue.
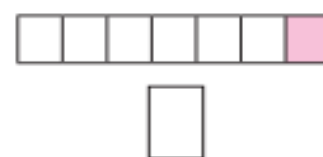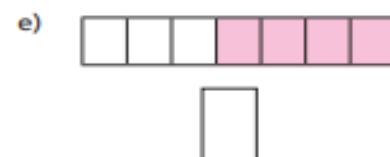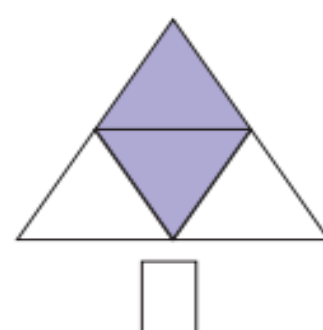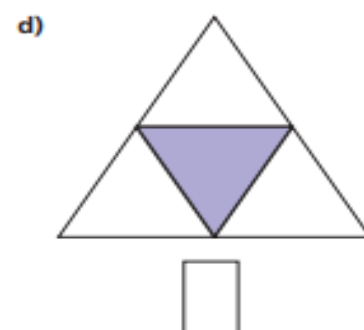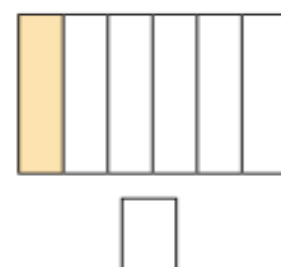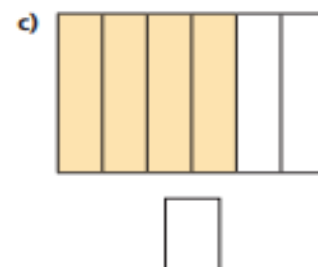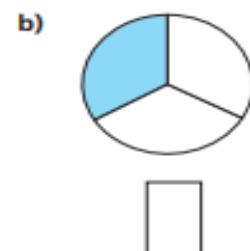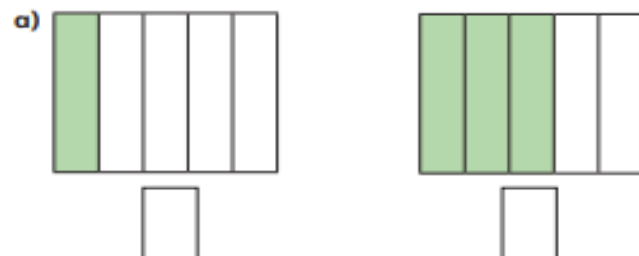
3 What fraction of each shape is shaded?

a) ☐   ☐

b) ☐   ☐

c) ☐   ☐

d) ☐   ☐

e) ☐   ☐

Tick the unit fraction in each pair of shapes.

How did you know which was the unit fraction?

4 a) Colour $\frac{1}{5}$ of each shape.
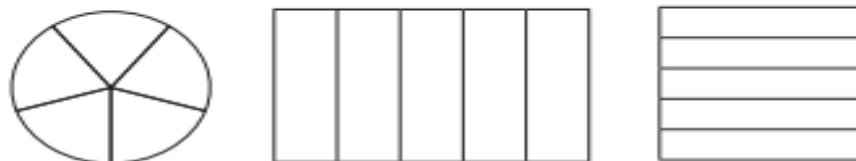
b) Colour $\frac{3}{5}$ of each shape.

What is the same and what is different about your answers?

5 a) Circle $\frac{1}{3}$ of the counters.

b) Circle $\frac{2}{3}$ of the counters.

What is the same and what is different about your answers?

6 Write the fractions in the table.

$\frac{1}{6}$ $\frac{2}{3}$ $\frac{3}{4}$ $\frac{1}{10}$ $\frac{1}{8}$

$\frac{3}{5}$ $\frac{1}{4}$ $\frac{1}{99}$ $\frac{6}{1}$ $\frac{1}{250}$

Unit fractions	Non-unit fractions

Write two more examples of your own in each column.

7 a) What is a unit fraction? What is a non-unit fraction?

Talk about it with a partner.

b) Complete the sentences.

An example of a unit fraction is ☐

The numerator is always ☐

An example of a non-unit fraction is ☐
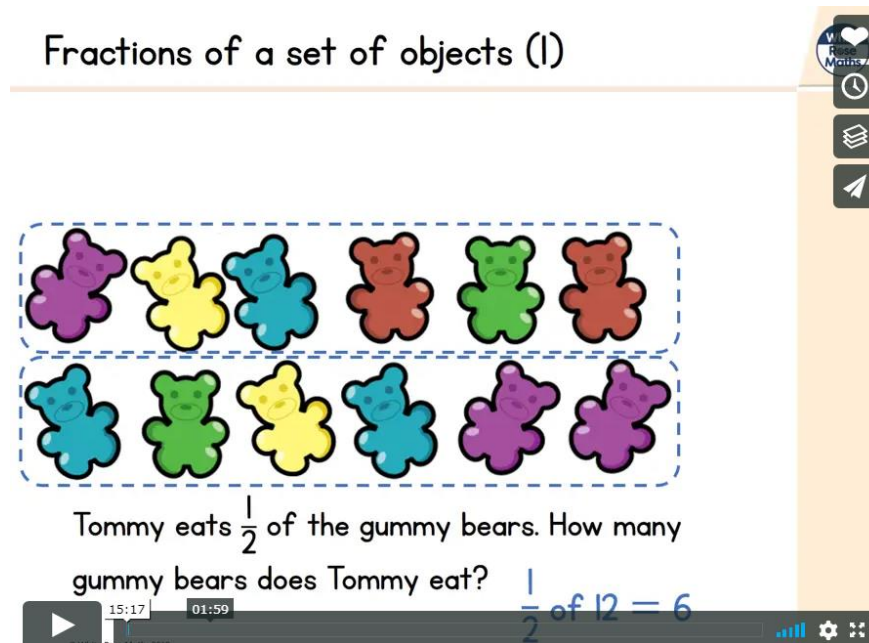
The numerator is always greater than ☐

Lesson 2

Now, watch this video about finding fractions of amounts:

https://vimeo.com/420723178

Fractions of a set of objects (1)

Tommy eats $\frac{1}{2}$ of the gummy bears. How many gummy bears does Tommy eat?

$\frac{1}{2}$ of 12 = 6

Now, try the questions on the following slides:

1 Here are some counters.

a) Circle $\frac{1}{4}$ of the counters.

b) How many counters did you circle? ☐

c) What is $\frac{1}{4}$ of 12? ☐

2 Draw counters in the bar models to help you complete each number sentence. The first one has been done for you.

a) $\frac{1}{2}$ of 8 = ☐4

b) $\frac{1}{2}$ of 16 = ☐

c) $\frac{1}{4}$ of 8 = ☐

d) $\frac{1}{4}$ of 16 = ☐

3

To find a half I need to divide by 2

Do you agree with Dexter? _____

Talk about it with a partner.

4 Complete the table.

Fraction	Division	Example	Drawing
one half	divide by 2	$\frac{1}{2}$ of 6 = 3	
one quarter		$\frac{1}{4}$ of 8 = 2	

5 Huan uses a bar model and base 10 to find $\frac{1}{3}$ of 36
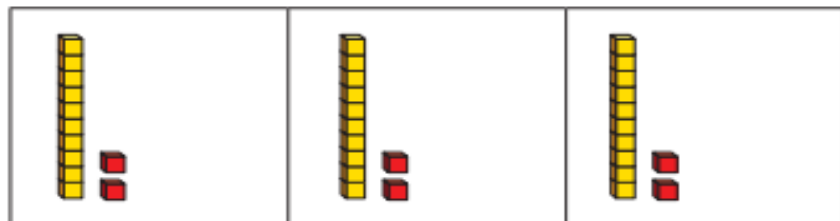
Use Huan's method to complete the calculations.

a) $\frac{1}{3}$ of 63 = ☐

b) $\frac{1}{4}$ of 48 = ☐

c) $\frac{1}{4}$ of 92 = ☐

6 Nijah uses a bar model and place value counters to find $\frac{1}{3}$ of 36

Use Nijah's method to complete the calculations.

a) $\frac{1}{3}$ of 96 = ☐

b) $\frac{1}{5}$ of 60 = ☐

c) $\frac{1}{4}$ of 52 = ☐

7 Which amount is greater? Tick your answer.

$\frac{1}{3}$ of £75   or $\frac{1}{5}$ of £75

Show your workings.

8 Complete the number sentences.

a) $\frac{1}{2}$ of ☐ = 30

b) $\frac{1}{4}$ of ☐ = 20

c) $\frac{1}{5}$ of ☐ = 50

9 Rosie, Amir and Alex each find a fraction of 24 using counters.

I have $\frac{1}{6}$ of 24

I have $\frac{1}{3}$ of 24

Rosie

Alex — I have 6 counters.

Amir

a) Order the children from least counters to most counters.

_____   _____   _____

least counters   most counters
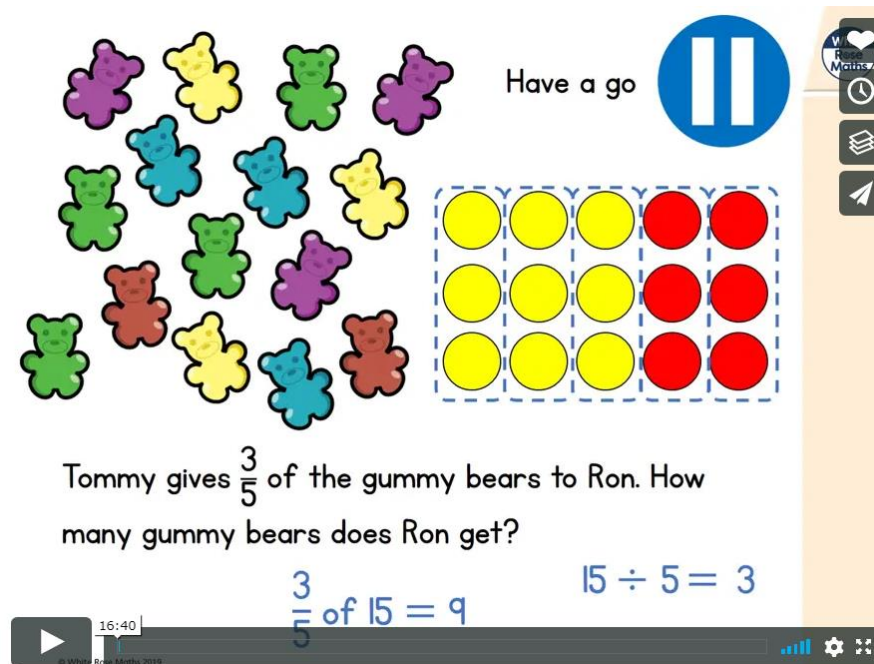
b) What fraction of the counters does Alex have? ☐

c) Rosie and Amir put their counters together.

Write their total number of counters as a fraction of 24 ☐

Lesson 3

Now, watch this video about finding fractions of amounts:

https://vimeo.com/420723744

Now, try the questions on the following slides:

Fractions of a set of objects (2)

1 Draw counters in the bar models to help you complete each number sentence.

a) $\frac{2}{3}$ of 15 = ☐

b) $\frac{3}{4}$ of 8 = ☐

c) $\frac{2}{5}$ of 20 = ☐

2 Match the questions and answers.

$\frac{2}{3}$ of 9 = ?	9
$\frac{3}{5}$ of 15 = ?	6
$\frac{5}{6}$ of 12 = ?	15
$\frac{3}{4}$ of 20 = ?	10

3 What is $\frac{6}{6}$ of 18? ☐

How do you know?

4 Brett uses a bar model and base 10 to find $\frac{2}{3}$ of 36

Use Brett's method to complete the number sentences.

a) $\frac{2}{3}$ of 63 = ☐

b) $\frac{3}{4}$ of 48 = ☐

c) $\frac{3}{4}$ of 92 = ☐

5 Kim uses a bar model and place value counters to find $\frac{2}{3}$ of 36

Use Kim's method to complete the number sentences.

a) $\frac{2}{3}$ of 96 = ☐

b) $\frac{3}{5}$ of 60 = ☐

c) $\frac{3}{4}$ of 52 = ☐

6 Complete the number sentences.

a) $\frac{2}{3}$ of ☐ = 30

b) $\frac{3}{4}$ of ☐ = 30

c) $\frac{5}{6}$ of ☐ = 30

7

Tommy: To find $\frac{3}{4}$ of 12, you divide by 4 and then multiply the answer by 3

Dexter: To find $\frac{3}{4}$ of 12, you divide by 3 and then multiply the answer by 4

Who is correct? _____

How do you know? Show your working.

8 Dora, Whitney and Ron each find a fraction of 24 using counters.

Dora: I have $\frac{5}{6}$ of 24

Whitney: I have $\frac{2}{3}$ of 24

Ron: I have 18 counters.

a) Who has the most counters? Show your workings.

_____

b) How many more counters does Dora have than Whitney?

☐

9 Write fractions to make the statements correct.

☐ of 36 < 18

☐ of 36 = 18

☐ of 36 > 18

How many different answers can you find for each?
Compare with a partner.

Lesson 1 Answers

1 Write fractions to complete the sentences.

a) $\frac{1}{3}$ of the counters are yellow.

b) $\frac{2}{3}$ of the counters are red.

2 Write fractions to complete the sentences.

a) $\frac{3}{6}$ of the tower is green.

b) $\frac{2}{6}$ of the tower is yellow.

c) $\frac{1}{6}$ of the tower is blue.

3 What fraction of each shape is shaded?

a) $\frac{1}{5}$ $\frac{3}{5}$

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

c) $\frac{1}{6}$ $\frac{1}{6}$

d) $\frac{1}{6}$ $\frac{2}{6}$

e) $\frac{4}{7}$ $\frac{1}{7}$

Tick the unit fraction in each pair of shapes.
How did you know which was the unit fraction?

4 a) Colour $\frac{1}{6}$ of each shape.

b) Colour $\frac{3}{6}$ of each shape.

What is the same and what is different about your answers?

5 a) Circle $\frac{1}{3}$ of the counters.

b) Circle $\frac{1}{3}$ of the counters.

What is the same and what is different about your answers?

6 Write the fractions in the table.

Unit fractions	Non-unit fractions
$\frac{1}{6}$ $\frac{1}{4}$ $\frac{1}{10}$ $\frac{1}{8}$ $\frac{1}{20}$	$\frac{3}{5}$ $\frac{2}{3}$ $\frac{3}{4}$

Write two more examples of your own in each column.

7 a) What is a unit fraction? What is a non-unit fraction?
Talk about it with a partner.

b) Complete the sentences.

An example of a unit fraction is $\frac{1}{9}$

The numerator is always 1

An example of a non-unit fraction is $\frac{2}{9}$

The numerator is always greater than 1

Lesson 2 Answers

1 Here are some counters.

a) Circle $\frac{1}{4}$ of the counters.

b) How many counters did you circle? 3

c) What is $\frac{1}{4}$ of 12? 3

2 Draw counters in the bar models to help you complete each number sentence. The first one has been done for you.

a) $\frac{1}{2}$ of 8 = 4

b) $\frac{1}{2}$ of 16 = 8

c) $\frac{1}{4}$ of 8 = 2

d) $\frac{1}{4}$ of 16 = 4

To find a half I need to divide by 2

Do you agree with Dexter? Yes

Talk about it with a partner.

4 Complete the table.

Fraction	Division	Example	Drawing
one half	divide by 2	$\frac{1}{2}$ of 6 = 3	
one quarter	divide by 4	$\frac{1}{4}$ of 8 = 2	
one third	divide by 3	$\frac{1}{3}$ of 15 = 5	
one fifth	divide by 5	$\frac{1}{5}$ of 15 = 3	

5 Huan uses a bar model and base 10 to find $\frac{1}{3}$ of 36

Use Huan's method to complete the calculations.

a) $\frac{1}{3}$ of 63 = 21

b) $\frac{1}{6}$ of 66 = 11

c) $\frac{1}{4}$ of 92 = 23

6 Nijah uses a bar model and place value counters to find $\frac{1}{3}$ of 36

Use Nijah's method to complete the calculations.

a) $\frac{1}{4}$ of 96 = 24

b) $\frac{1}{6}$ of 60 = 10

c) $\frac{1}{4}$ of 52 = 13

7 Which amount is greater? Tick your answer.

$\frac{1}{2}$ of £75   or $\frac{1}{5}$ of £75

Show your workings.

$\frac{1}{2}$ of £75 = £37.50
$\frac{1}{5}$ of £75 = £15

8 Complete the number sentence.

a) $\frac{1}{2}$ of 60 = 30

b) $\frac{1}{4}$ of 80 = 20

c) $\frac{1}{5}$ of 250 = 50

9 Rosie, Amir and Alex each find a fraction of 24 using counters.

Rosie: I have $\frac{1}{6}$ of 24
Amir: I have $\frac{1}{3}$ of 24
Alex: I have 6 counters.

a) Order the children from least counters to most counters.

Rosie _____ Alex _____ Amir
least counters   most counters

b) What fraction of the counters does Alex have? $\frac{6}{24} = \frac{1}{4}$

c) Rosie and Amir put their counters together.
Write their total number of counters as a fraction of 24.

4 + 8 = 12

Lesson 3 Answers

1 Draw counters in the bar models to help you complete each number sentence.

a) $\frac{2}{3}$ of 15 = **10**

b) $\frac{3}{4}$ of 8 = **6**

c) $\frac{2}{5}$ of 20 = **8**

2 Match the questions and answers.

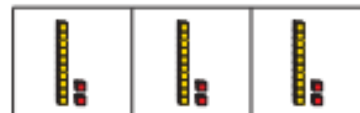|	
$\frac{2}{3}$ of 9 = ?	9
$\frac{2}{5}$ of 15 = ?	6
$\frac{3}{4}$ of 12 = ?	15
$\frac{3}{4}$ of 20 = ?	10

3 What is $\frac{6}{6}$ of 18? **18**

How do you know?

4 Brett uses a bar model and base 10 to find $\frac{2}{3}$ of 36

Use Brett's method to complete the number sentences.

a) $\frac{2}{3}$ of 63 = **42**

b) $\frac{3}{4}$ of 48 = **36**

c) $\frac{3}{4}$ of 92 = **69**

5 Kim uses a bar model and place value counters to find $\frac{2}{3}$ of 36

Use Kim's method to complete the number sentences.

a) $\frac{2}{3}$ of 96 = **64**

b) $\frac{3}{5}$ of 60 = **36**

c) $\frac{3}{4}$ of 52 = **39**

6 Complete the number sentences.

a) $\frac{2}{3}$ of **45** = 30

b) $\frac{3}{4}$ of **40** = 30

c) $\frac{5}{6}$ of **36** = 30

7

Tommy: To find $\frac{2}{4}$ of 12, you divide by 4 and then multiply the answer by 2

Dexter: To find $\frac{2}{4}$ of 12, you divide by 2 and then multiply the answer by 4

Who is correct? **Tommy**

How do you know? Show your working.

8 Dora, Whitney and Ron each find a fraction of 24 using counters.

Dora: I have $\frac{5}{6}$ of 24

Whitney: I have $\frac{2}{3}$ of 24

Ron: I have 18 counters

a) Who has the most counters? Show your workings.

$\frac{5}{6}$ of 24 = 20 $\frac{2}{3}$ of 24 = 16

Dora

b) How many more counters does Dora have than Whitney?

20 − 16 = 4   **4**

9 Write fractions to make the statements correct.

e.g. $\frac{1}{2}$ of 36 < 18

$\frac{1}{3}$ of 36 = 18

$\frac{3}{4}$ of 36 > 18

How many different answers can you find for each? Compare with a partner.