



Strengthening the  
Foundations Workbook

KS3 at Diss High School  
Maths  
Summer 'catch up'

ANSWERS

Hello!

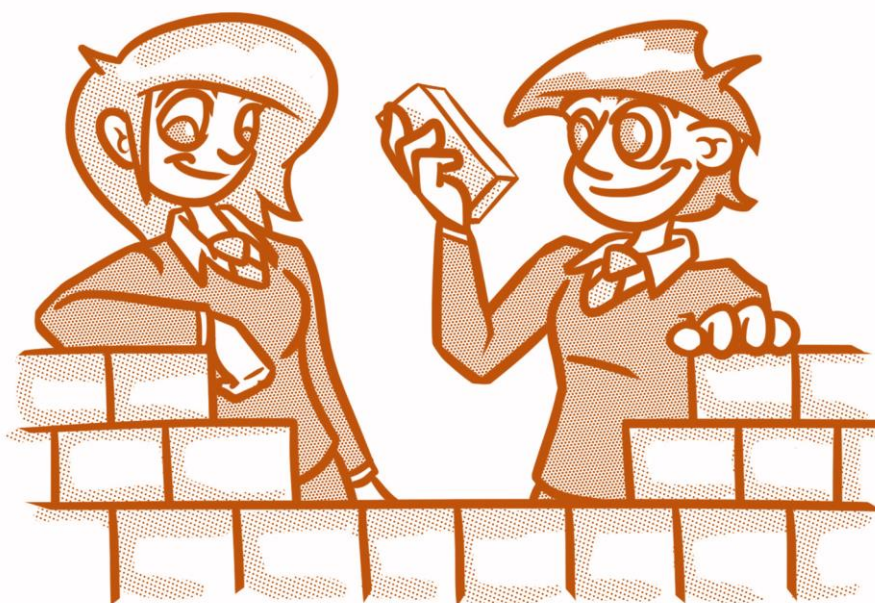
The answer for each question can be found in the appropriate bricks.

If the answer is too long for the brick then it will appear after the brick walls. There will be a letter or number in the brick to help you find the answer.

Where a brick has “**Individual response**”, it is because you have been asked to do something like “write a revision card” “design your own question with mark scheme”. Some things to consider when doing this:

- Have you included all the key information?
- Where can you find the key facts you need?
- Who is the question/ revision designed for?
- When writing a mark scheme have you considered **how** the marks are assigned?
- Are there different ways of answering the questions? Do you need to include multiple methods?
- How are you going to present your work?

Good luck!



Individual response

**A**

**B**

18

Individual response

Individual response

Individual response

**C**

Divide the numerator by the denominator.  
 Write down the whole number answer  
 Then write down any remainder above the denominator.  
 Eg.

$$\frac{16}{5} = 3\frac{1}{5}$$

$$\frac{60}{80} = \frac{3}{4} = 75\%$$

Bilal did better because he got 75%.  
 You could do this question by comparing them as fractions or decimals.

See diagram on page 4

Individual response

$$\frac{3}{4}, 0.3, 35\%$$

Compare using equivalence

$$\frac{16}{40} = \frac{2}{5} = 0.4$$

=40%

0.8  
 2.0  
 3.5  
 1.2

$$\frac{3}{5} + \frac{1}{2} = \frac{6}{10} + \frac{5}{10}$$

$$\frac{11}{10} = 1\frac{1}{10}$$

Individual response

**D**

Individual response

Individual response

1:10

Miles	Km
5	8
1	1.6
8	12.8

Uzma 12.8 km ran the furthest.

4 hours

$\frac{74}{12} = 6\frac{1}{6}$   
calculate  $\frac{1}{6}$  of 12.

6ft 2 inches

1.4 metres

1:200

Individual response

Litres	Cost
4	7
1	1.75
13	22.75

£22.75

One pen cost £0.15  
7 pens cost £1.05

$54 \times 28 = 1512$   
 $1512 \div 28 = 54$

5 litres cost £6  
1 litre costs £1.20  
20 litres cost £24

$\frac{12}{30} = \frac{2}{5}$

**A**

Which is bigger \_\_\_\_\_ or  $\frac{2}{5}$ ?  
Any fraction smaller than  $\frac{2}{5}$  eg  $\frac{3}{10}$

Write **40 %** as a fraction?

A grid with 15 squares has **6** shaded in.  
What fraction of the shape is unshaded?

Jordan is reading a book on his e-reader.  
When he picks it up, it tells him he is  $\frac{1}{4}$  of the way through the book. He reads some more. When he checks again, he is now **65%** of the way through the book. What fraction of the book did he read?

**The answer is  $\frac{2}{5}$**

**B**

- There are lots of possible question, one example might be  
What fraction of the shape is shaded?  
See the notes at the start of the booklet of things you should think about when writing a question and mark scheme.

**C**

25%	25%	25%	25%
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$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
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**D**

Jenny and Rickma share **25** sweets.  
Jenny has **10** and Rickma has 15. What  
is the ratio of sweets?

Jenny and Rickma share **45** sweets. Rickma  
has 9 more sweets than Jenny. Jenny has  
**18**. What is the ratio of sweets?

Jenny and Rickma share some sweets.  
Jenny has 12 sweets, Rickma has **18**.  
Give the ratio of their sweets in its  
simplest form.

Jenny and Rickma share some sweets.  
Jenny has  $\frac{?}{?}$  of the sweets. Write the ratio of  
sweets.

**Any fraction equivalent to  $\frac{2}{5}$**

**The answer is 2:3**