



Strengthening the
Foundations Workbook

KS4 at Diss High School
Maths Foundation
Summer 'catch up'

ANSWERS

Hello!

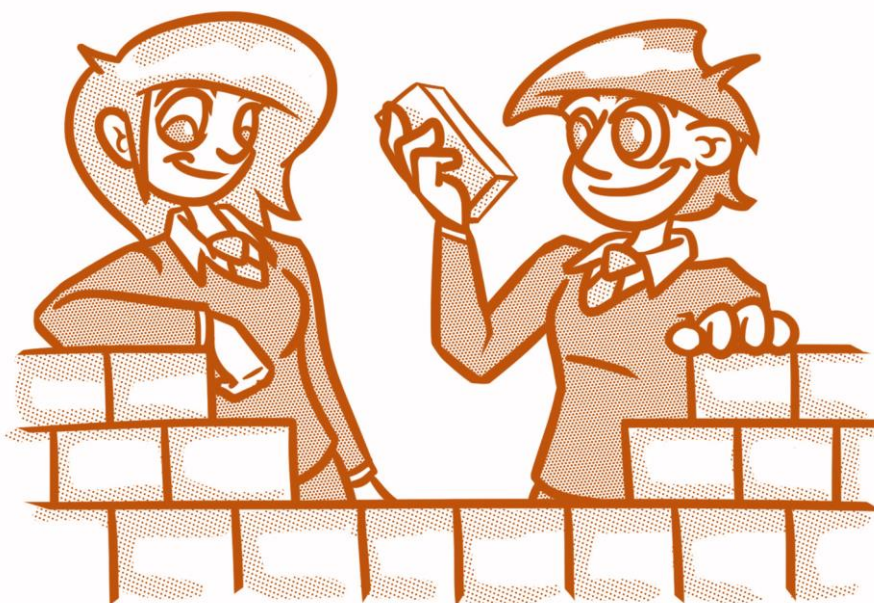
The answer for each question can be found in the appropriate bricks.

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

Individual response

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, and add more details to the information.

Individual response

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

Compare using equivalence

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

0.8
 2.0
 3.5
 1.2

Individual response

Individual response

C

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

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

9, 18

4: 3 or 3: 4

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?

C

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