Name:

Exam Style Questions

Fractions, Decimals and Percentages

Corbettmaths

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

Guidance

1. Read each question carefully before you begin answering it.
2. Don't spend too long on one question.
3. Attempt every question.
4. Check your answers seem right.
5. Always show your workings

Revision for this topic

www.corbettmaths.com/contents

Video 129
Video 130

1. Complete the table.

Fraction	Decimal	Percentage
$\frac{1}{2}$	0.5	
	0.75	75%
$\frac{2}{5}$		40%

(3)

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2. (a) Write 0.1 as a fraction.

....
(1)

(b) Write 0.1 as a percentage.

....
(1)

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3. (a) Write ¼ as a percentage.

....
(1)

(b) Write ¼ as a decimal.

....
(1)

4.
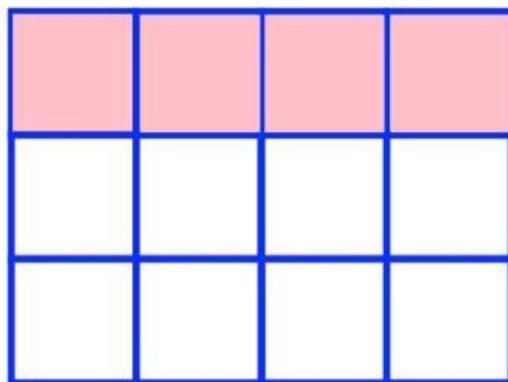
(a) Write down the fraction of this shape that is shaded.
     Give your fraction in its simplest form.

....
                                                                              (2)

(b) Write $\dfrac{3}{10}$ as a decimal.

....
                                                                              (1)

(c) Samuel says that 25% is greater than 0.3.

     Is he correct?
     Explain your answer.

     ....

     ....

     ....
                                                                              (1)

5. The table shows the percentage of votes each party obtains in an election.

Party	Percentage
Conservative	25%
Green	35%
Labour	
Liberal Democrat	11%

(a) Work out what percentage voted for Labour.

....
(1)

(b) Write 35% as a fraction.
Give your answer in its simplest form.

....
(2)

(c) Write 11% as a decimal.

....
(1)

8000 people voted in the election.

(d) Work out 25% of 8000

....
(1)

6.   (a) Write 20% as a decimal.

....
(1)

        (b) Write 9% as a fraction.

....
(1)

7.   A train is late arriving into a station.
        It should arrive at 5 pm
        It arrives at 5.15 pm.

        (a) How many minutes late is the train?

....
(1)

        (b) Write your answer as a fraction of an hour.

....
(1)

8.   (a) Write 0.9 as a percentage.

....
(1)

        (b) Write 0.9 as a fraction.
             Give your answer in its simplest form.

....
(2)

9. Complete the table.

Fraction	Decimal	Percentage
$\frac{7}{100}$	0.07	
	0.35	35%
$\frac{3}{5}$		60%

(3)

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10. For every £200 that Mrs Wallace earns, she saves £34.

(a) Work out £34 as a percentage of £200.

.........................%

(2)

(b) Last month Mrs Wallace earns £1000.

How much of this does she save?

£.........................

(2)

11. Alannah has 300 scarves that she takes to a market to sell.

Alannah sells $\frac{7}{10}$ of the scarves.

(a) How many scarves does Alannah sell?

....

(2)

(b) Write $\frac{7}{10}$ as a percentage.

....

(1)

(c) Write $\frac{7}{10}$ as a decimal.

....

(1)

Of the 300 scarves, 200 are **not** blue.

(d) Write the number of scarves which are blue as a fraction of the total number of scarves.

....

(1)

12. (a) What fraction of this shape is shaded?
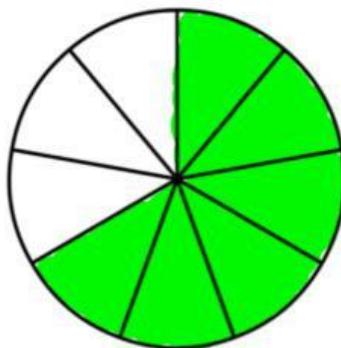
....
(1)

(b) Shade 0.4 of this shape.
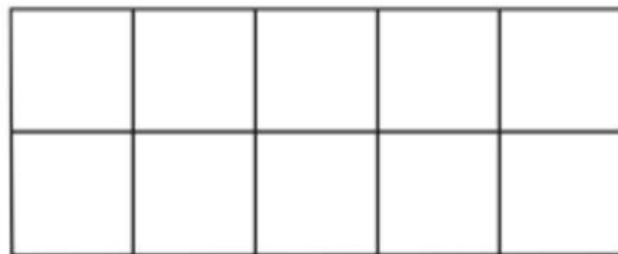
(1)

(c) What percentage of this shape is shaded?
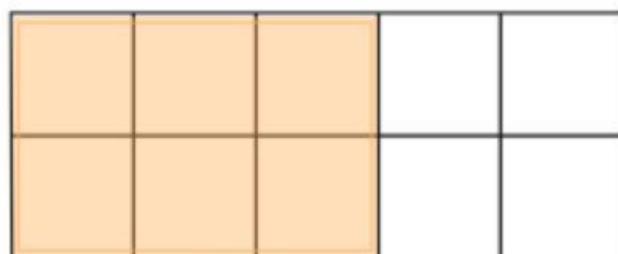
....
(1)

13. Penny gets £8 pocket money.
    She is given an increase of £1.

    (a) Write down £1 as a fraction of £8

    ....
    (1)

    (b) Write your answer as a percentage

    ....
    (1)

14. Complete the table.

Fraction	Decimal	Percentage
		85%
	0.12	
$\dfrac{23}{25}$		

(4)

15. Convert 0.124 to a fraction.
    Give your answer in its simplest form.

    ....
    (2)

15. Convert $\dfrac{13}{20}$ to a decimal.

....
(2)

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16. Convert $\dfrac{17}{40}$ to a percentage.

....
(2)

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17. Convert $\dfrac{5}{8}$ to a decimal.

....
(2)