Name:

Exam Style Questions

Expressing as a Percentage

Corbettmaths

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser
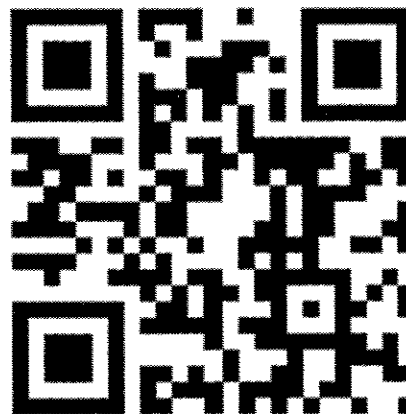
You may use tracing paper if needed

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 237

1. For every 50 students at Hightown School, 29 are girls.

(a) Work out 29 as a percentage of 50.

$$\frac{29}{50} = \frac{58}{100}$$

.... 58 ....%

(2)

1000 students attend Hightown School.

(b) How many girls attend Hightown School?

$$\frac{58}{100} = \frac{580}{1000}$$

.... 580 ....

(2)

2. David receives £5 from his Grandmother.
He gives £2 to his sister.

Write down £2 as a percentage of £5.

$$\frac{2}{5} = \frac{4}{10} = \frac{40}{100}$$

.... 40 ....%

(1)

3. Roger scores 6 out of 8 in a quiz.

Work out his score as a percentage

$$\frac{6}{8} = \frac{3}{4} = \frac{75}{100}$$

.... 75 ....%

(1)

4. Susan brings 500 flapjacks to a local fair.
   Susan sells 450 of the flapjacks.

   What percentage of the flapjacks did Susan sell?

   $$\frac{450}{500} = \frac{90}{100}$$

   ....90............%

   (2)

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5. Write 94 out of 200 as a percentage.

   $$\frac{94}{200} = \frac{47}{100}$$

   ....47............%

   (2)

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6. Colin gains 13 out of 20 in a class test.

   Work out his mark as a percentage

   $$\frac{13}{20} = \frac{65}{100}$$

   ....65............%

   (2)

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7. Work out 15 as a percentage of 80.

   $$\frac{15}{80}$$

   $15 \div 80 = 0.1875$

   0.1875×100

   ....18.75............%

   (2)

8. Express 126 as a percentage of 360

$$\frac{126}{360} = 35\%$$

$126 \div 360 = 0.35$

..........35..........%

(2)

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9. There are 600 people at a football match.
    There 222 children at the match.

    Write 222 out of 600 as a percentage.

$$\frac{222}{600} = \frac{37}{100}$$

..........37..........%

(2)

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10. Write 42 as a percentage of 64

$$\frac{42}{64}$$

$42 \div 64 = 0.65625$

..........65.625..........%

(2)

11. Work out £153 as a percentage of £450

$$\frac{153}{450} = 0.34$$

........34........%

(2)

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12. Bryan buys a car costing £15000.
He pays a deposit £6000.

What is £6000 as a percentage of £15000?

$$\frac{6000}{15000} = \frac{6}{15} = \frac{2}{5}$$

........40........%

(2)

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13. There are 400 beads in a bag.
140 of the 400 beads are yellow.

Work out 140 as a percentage of 400.

$$\frac{140}{400} = \frac{14}{40} = \frac{7}{20}$$

........35........%

(2)

14. James scored 30 out of 90 in a music test.
    He scored 48 out of 150 in a drama test.
    James scored 35 out of 120 in an art test.

    In which test did James score the highest percentage?
    You must show your workings.

    Music   Drama   Art

    33·3%   32%   29·1666%

    ....Music.........

    (4)

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15. The price of a DVD player is £160
    In a sale the price is decreased by £28.

    Work out the decrease as a percentage of the original price.

    $$\frac{28}{160} = \frac{7}{40}$$

    $$40\overline{)7.70^{30}0^{20}}$$
    $$\quad\ 0.175$$

    ....17·5.... %

    (2)

16. The price of a cinema ticket is reduced from £8 to £7.50

Calculate the reduction as a percentage of the original price.

$$\frac{50}{800} = \frac{5}{80}$$

$$80 \overline{)5.5^50^20^40} \quad 0.0\,6\,2\,5$$

.........6.25..............%

(3)

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17. The population of a country is 2.85×10^6

The number of people that own a rabbit is 1.24×10^5

Calculate the percentage of the population that own a rabbit.

$$1.24 \times 10^5 \div 2.85 \times 10^6 = 0.04350877\ldots$$

.........4.35..............%

(3)