

Name: \_\_\_\_\_

## Exam Style Questions

Fractions to Percentages  
Percentages to Fractions



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

Secondary

Video 122

Video 126



1. Write 19% as a fraction.

$$\frac{19}{100}$$

.....  
(1)

2. Write 30% as a fraction.  
Give your answer in its simplest form.

$$\frac{30}{100} = \frac{3}{10}$$

$$\frac{3}{10}$$

.....  
(2)

3. Write  $\frac{4}{5}$  as a percentage.

$$80\%$$

.....  
(1)

4. Write  $\frac{17}{20}$  as a percentage.

$$\frac{17}{20} = \frac{85}{100}$$

.....  
(1)

$$85\%$$

.....  
(1)

5. Write 15% as a fraction.  
Give your answer in its simplest form.

$$\frac{15}{100} = \frac{3}{20}$$

$$\frac{3}{20}$$

.....  
(2)

6. Write 68% as a fraction.  
Give your answer in its simplest form.

$$\frac{68}{100} = \frac{34}{50} = \frac{17}{25} \quad \frac{17}{25} \dots\dots\dots$$

(2)

7. Write 6% as a fraction.  
Give your answer in its simplest form.

$$\frac{6}{100} = \frac{3}{50} \quad \frac{3}{50} \dots\dots\dots$$

(2)

8. Write  $\frac{7}{10}$  as a percentage.

$$70 \dots\dots\dots\%$$

(1)

9. Write  $\frac{12}{25}$  as a percentage.

$$\frac{12}{25} \xrightarrow{\times 4} \frac{48}{100} \quad \frac{48}{100} \dots\dots\dots\%$$

(1)

10. Write 72% as a fraction.  
Give your answer in its simplest form.

$$\frac{72}{100} = \frac{36}{50} = \frac{18}{25} \quad \frac{18}{25} \dots\dots\dots$$

(2)

11. Write 37.5% as a fraction.  
Give your answer in its simplest form.

$$\frac{37.5}{100} = \frac{375}{1000} = \frac{75}{200} = \frac{15}{40} = \frac{3}{8}$$

$\frac{3}{8}$   
.....%  
(2)

12. Write  $\frac{9}{40}$  as a percentage.

$$40 \overline{) 9.000} \quad 0.225$$

$22.5$   
.....%  
(2)

13. Write  $\frac{7}{8}$  as a percentage.

$$8 \overline{) 7.000} \quad 0.875$$

$87.5$   
.....%  
(2)

14. Complete this table.

Fraction	Percentage
$\frac{1}{2}$	50%
$\frac{1}{5}$	20%
$\frac{3}{4}$	75%
$\frac{2}{5}$	40%

(3)

15.



- (a) Write down the fraction of the grid that is shaded.  
Give your answer in its simplest form.

$$\frac{6}{10}$$

$$\frac{3}{5}$$

.....  
(1)

- (b) Write your answer to (a) as a percentage.

$$60\%$$

.....  
(1)

16. Match each percentage and fraction.

Fraction	Percentage
$\frac{4}{5}$	75%
$\frac{3}{4}$	66 $\frac{2}{3}$ %
$\frac{2}{3}$	80%
$\frac{17}{20}$	85%

(2)

17. Arrange the following numbers in order, from smallest to largest

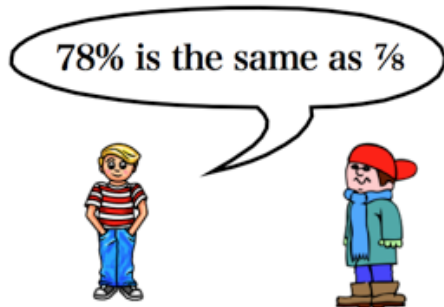
$$\frac{3}{10} \quad 29\% \quad 34.5\% \quad \frac{1}{3} \quad \frac{6}{25}$$

*30%                      33.3%    24%*

$$\frac{6}{25}, 29\%, \frac{3}{10}, \frac{1}{3}, 34.5\%$$

(3)

18.



Explain why Mark is incorrect.

$$\frac{7}{8} = 87.5\%$$

*therefore 78% is not the same as  $\frac{7}{8}$*

(2)

19. Over a season, a football team won 53% of their matches and drew 32%.

Win 53%  
Draw 32%  
Loss

- (a) Work out what percentage of games were lost.

$$53 + 32 = 85$$
$$100 - 85 = 15$$

$$\frac{15}{100} = 15\%$$

(1)

- (b) Work out what fraction of the games were lost.  
Give your answer in its simplest form.

$$\frac{15}{100} = \frac{3}{20}$$

$$\frac{3}{20}$$

(2)

20.



- (a) Write 54.2% as a fraction.  
Give your answer in its simplest form.

$$\frac{54.2}{100} = \frac{542}{1000} = \frac{271}{500}$$

$$\frac{271}{500}$$

(2)

- (b) Write 0.48% as a fraction.  
Give your answer in its simplest form.

$$\frac{0.48}{100} = \frac{48}{10000} = \frac{24}{5000} = \frac{3}{625}$$

$$\frac{3}{625}$$

(2)

21.



(a) Write  $\frac{15}{16}$  as a percentage.

$$15 \div 16 = 0.9375$$

$$\frac{93.75}{\dots\dots\dots}\%$$

(1)

(b) Write  $\frac{9}{55}$  as a percentage.

$$9 \div 55 = 0.16363636\dots$$
$$16.\dot{3}\%$$

$$\frac{16.3636\dots}{\dots\dots\dots}\%$$

(1)

22. Write  $\frac{4}{11}$  as a percentage.



$$0.36363\dots$$
$$11 \overline{) 4.400000}$$

$$\frac{36.3636\dots}{\dots\dots\dots}\%$$

(2)

23. Write 40.5% as a fraction  
Give your answer in its simplest form.



$$\frac{40.5}{100} = \frac{81}{200}$$

$$\frac{81}{200}$$

(2)