

Name: _____

Exam Style Questions

Decimals to Fractions
Fractions to Decimals



Corbettmaths

Equipment needed: Pen, Calculator

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Videos 123, 124, 127, 128



Answers and Video Solutions



1. Write 0.25 as a fraction.



$$\frac{1}{4}$$

(1)

2. Write 0.7 as a fraction.



$$\frac{7}{10}$$

(1)

3. What is $\frac{1}{5}$ as a decimal?



Circle your answer.

0.2

0.5

0.02

0.05

(1)

4. Write 0.6 as a fraction.
Give your answer in its simplest form.



$$\frac{6}{10} = \frac{3}{5}$$

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

(2)

5.

Write $\frac{3}{4}$ as a decimal.

0.75

(1)

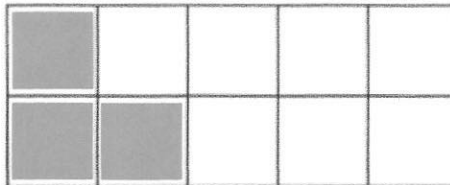
6.

Write $\frac{4}{5}$ as a decimal.

0.8

(1)

7.



(a) Write down the fraction of the grid that is shaded.

 $\frac{3}{10}$

(1)

(b) Write your answer to (a) as a decimal.

0.3

(1)

8. Write 0.14 as a fraction.
Give your answer in its simplest form.



$$\frac{14}{100} = \frac{7}{50}$$

$$\frac{7}{50}$$

(2)

9. Write 0.52 as a fraction.
Give your answer in its simplest form.



$$\frac{52}{100} = \frac{26}{50} = \frac{13}{25}$$

$$\frac{13}{25}$$

(2)

10. Write 0.08 as a fraction.
Give your answer in its simplest form.



$$\frac{8}{100} = \frac{4}{50} = \frac{2}{25}$$

$$\frac{2}{25}$$

(2)

11. Write $\frac{9}{10}$ as a decimal.



$$0.9$$

(1)

12. Write 0.012 as a fraction.
Give your answer in its simplest form.



$$\frac{12}{1000} = \frac{6}{500} = \frac{3}{250}$$

$$\frac{3}{250}$$

(2)

13. Write $\frac{3}{100}$ as a decimal.



$$0.03$$

(1)

14. Write $\frac{3}{20}$ as a decimal.



$$0.15$$
$$20 \overline{) 3.00}$$

$$0.15$$

(1)

15. Write 0.47 as a fraction.



$$\frac{47}{100}$$

(1)

16.



Circle the decimal that is greater than $\frac{1}{4}$ and less than $\frac{1}{3}$

0.25

0.333...

0.21

0.24

0.31

0.34

(1)

17.



Write 0.82 as a fraction.

Give your answer in its simplest form.

$$\frac{82}{100} = \frac{41}{50}$$

$$\frac{41}{50}$$

(2)

18.



Circle the value of 0.35 as a fraction.

 $\frac{3}{5}$ $\frac{2}{7}$ $\frac{1}{3}$ $\frac{7}{20}$

(1)

19.

What is $\frac{9}{2}$ as a decimal?

Circle your answer.

9.2

2.9

4.1

4.5

(1)

20. Circle the correct statement.



0.75

$$0.7 > \frac{3}{4}$$

X

$$0.7 = \frac{3}{4}$$

X

$$0.7 < \frac{3}{4}$$

(1)

21. Write 0.902 as a fraction.



Give your answer in its simplest form.

$$\frac{902}{1000} = \frac{451}{500}$$

$$\frac{451}{500}$$

(2)

22. Write $\frac{9}{40}$ as a decimal.



$$0.225$$

$$40 \overline{) 9.000}$$

$$0.225$$

(2)

23. Write $\frac{5}{8}$ as a decimal.



$$0.625$$

$$8 \overline{) 5.000}$$

$$0.625$$

(2)

24. Write 0.725 as a fraction in its simplest form.



$$\frac{725}{1000} = \frac{145}{200} = \frac{29}{40}$$

$$\frac{29}{40}$$

(2)

25. Use one of the symbols $<$, $=$ or $>$ to make the statement true.



$$0.333\ldots$$

$$0.4 > \frac{1}{3}$$

(1)

26. Noel says that 0.66 is equal to $\frac{2}{3}$



Is Noel correct?
Explain your answer.

$$\frac{2}{3} = 0.6666\ldots$$

No, $\frac{2}{3}$ is equal to $0.6666\ldots$, not 0.66.

(1)

27. Write $\frac{7}{16}$ as a decimal.



$$7 \div 16 = 0.4375$$

$$0.4375$$

(1)

28. Write $\frac{13}{42}$ as a decimal.



Give your answer to 2 decimal places.

$$13 \div 42 = 0.3095238095$$

0.31

(2)

29. Write 0.4932 as a fraction in its simplest form.



$$\frac{1233}{2500}$$

(1)

30. Write 1.925 as a fraction.
Give your answer in its simplest form.



$$\frac{77}{40}$$

(2)

31. Circle the fraction that is equivalent to 5.25



$$\left(\frac{21}{4} \right)$$

$$\frac{23}{4}$$

$$\frac{25}{4}$$

$$\frac{27}{4}$$

$$21 \div 4 = 5.25$$

(1)

32. Circle the fraction that is equivalent to 2.375



$$\frac{17}{8}$$

$$\frac{9}{4}$$

$$\frac{19}{8}$$

$$\frac{21}{8}$$

$$19 \div 8 = 2.375$$

(1)

33. Match each decimal and fraction.



Decimal

Fraction

0.325

0.4

0.3333...

0.35

$\frac{2}{5}$

$\frac{7}{20}$

$\frac{13}{40}$

$\frac{1}{3}$

(2)

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



$$0.7 \quad \frac{2}{3} \quad 0.65 \quad \frac{3}{5} \quad \frac{5}{8}$$

$0.6\overline{6}$ 0.6 0.625

$$\frac{3}{5}, \frac{5}{8}, 0.65, \frac{2}{3}, 0.7$$

(3)