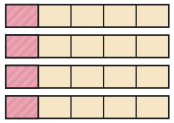
Fractions to decimals with a calculator

ANSWERS

1

4 pizzas are shared equally between 5 people. Write each share, $\frac{4}{5}$ of a pizza, as a decimal.



Divide: 4 ÷ 5

Keys: 4 ÷ 5 =

Display: 0.8

Answer 0.8

2

Write $\frac{9}{16}$ as a decimal.

Divide: 9 ÷ 16

Keys: 9 ÷ 1 6 =

Display: 0.5625

Answer 0.5625

3

Write $\frac{13}{25}$ as a decimal.

Divide: 13 ÷ 25

Keys: 1 3 ÷ 2 5 =

Display: 0.52

Answer 0.52

4

Write $\frac{21}{40}$ as a decimal.

Divide: 21 ÷ 40

Keys: 2 1 ÷ 4 0 =

Display: 0.525

Answer 0.525

5

Write $\frac{4}{9}$ as a decimal. Use dots to show the recurring digit. Then give it to 2 decimal places.

Display: 0.4444444444

Dot: $0.\dot{4}$

2 d.p.: 0.44

Answer $0.\dot{4}$ 0.44

6

Write $\frac{1}{6}$ as a decimal. Give your answer to 2 decimal places.

Divide: 1 ÷ 6

Display: 0.1666666667

2 d.p.: 0.16|66... → 0.17

Answer 0.17

7

To write $\frac{9}{25}$ as a decimal, Ellie types 25 ÷ 9 and gets 2.777777778. Explain her mistake, then find the right answer.

wrong way round: it is 9 ÷ 25

9 ÷ 25 = 0.36, less than 1

Answer 0.36

8

Write these in order, smallest first.

$\frac{3}{4}$ 0.74 $\frac{8}{11}$

$\frac{3}{4} = 0.75$

$\frac{8}{11} = 0.7272...$

Answer $\frac{8}{11}$, 0.74, $\frac{3}{4}$

0.727..., 0.740, 0.750

Fractions to decimals with a calculator *further practice*

ANSWERS

9

Write $\frac{33}{40}$ as a decimal.

$33 \div 40$

Answer 0.825

10

Write $\frac{5}{11}$ as a decimal. Use dots to show the recurring digits.

$5 \div 11 = 0.454545...$

Answer $0.\dot{4}\dot{5}$

11

In a survey, 19 out of 40 students walk to school. Write the fraction of students who walk as a decimal.

$\frac{19}{40} = 19 \div 40$

Answer 0.475

12

Which is bigger, $\frac{5}{12}$ or 0.4?
Show how you know.

$\frac{5}{12} = 0.4166...$

$0.416... > 0.400$

Answer $\frac{5}{12}$

13

In a quiz, Ana gets $\frac{17}{20}$ of the questions right, Ben gets 0.87 of them right and Cal gets $\frac{22}{25}$ of them right. Who did best?

Ana $\frac{17}{20} = 0.85$

Cal $\frac{22}{25} = 0.88$

Answer Cal

14

Write $\frac{5}{7}$ as a decimal. Give your answer to 3 decimal places.

$5 \div 7 = 0.7142857...$

Answer 0.714

15

Write $4\frac{2}{3}$ as a decimal. Give your answer to 2 decimal places.

$\frac{2}{3} = 2 \div 3 = 0.666...$

$4 + 0.666... = 4.666...$

Answer 4.67

16

Lena's calculator shows 0.2727272727.
Which of these fractions did she type?
Explain how you know.

$\frac{3}{11}$ $\frac{2}{7}$ $\frac{4}{15}$

$\frac{2}{7} = 0.2857...$

$\frac{4}{15} = 0.2666...$

$\frac{3}{11} = 0.2727...$

Answer $\frac{3}{11}$