

GCSE Maths: Decimals and fractions (Higher): worksheet

GCSE Maths - Decimals, Rounding and Estimation - Higher - Lesson 4.5

Name: _____

Date: _____

Score: _____

13 questions. Write your answers in the spaces. Answers and step-by-step help are free at websink.site/gcse/maths/ch04-decimals-rounding-estimation/higher/decimals-and-fractions/

Exercise 4E Decimals and fractions

Non-calculator

1 Write each decimal as a fraction in its simplest form.

(a) 0.7

Answer:

(b) 0.25

Answer:

(c) 0.6

Answer:

(d) 0.35

Answer:

(e) 0.125

Answer:

(f) 0.04

Answer:

2 Write each fraction as a decimal.

(a) $\frac{1}{2}$

Answer:

(b) $\frac{3}{5}$

Answer:

(c) $\frac{9}{20}$

Answer:

(d) $\frac{13}{25}$

Answer:

(e) $\frac{17}{50}$

Answer:

(f) $\frac{4}{5}$

Answer:

3 Write each fraction as a decimal.

(a) $\frac{3}{8}$

Answer:

(b) $\frac{5}{8}$

Answer:

(c) $\frac{1}{8}$

Answer:

(d) $\frac{7}{40}$

Answer:

4 Write each decimal as a mixed number in its simplest form.

(a) 3.5

Answer:

(b) 1.25

Answer:

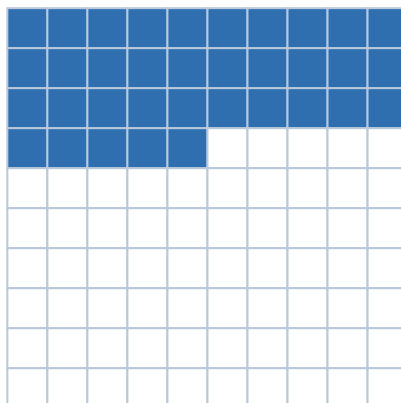
(c) 2.04

Answer:

(d) 6.8

Answer:

5 The diagram is a 10 by 10 grid. Some of the squares are shaded. Write the shaded part as a decimal and as a fraction in its simplest form.



Answer:

6 Write these in order, smallest first.

(a) 0.4, $\frac{3}{8}$, 0.35

Answer:

(b) $\frac{7}{10}$, 0.65, $\frac{4}{5}$, 0.7

Answer:

(c) $0.55, \frac{1}{2}, \frac{9}{20}, 0.5$

Answer:

7 Which is bigger, $\frac{3}{8}$ or 0.4? Show your working.

Answer:

8 A bag of flour has a mass of 1.5 kg. Joe uses $\frac{3}{5}$ of the flour. How many kilograms of flour does he use?

Answer:

9 Explain why $0.5 = \frac{5}{10} = \frac{1}{2}$.

Answer:

10 Is 0.3 the same as $\frac{3}{100}$? Give a reason.

Answer:

11 Write a fraction that is between 0.3 and 0.4. Give your answer in the form $\frac{a}{b}$ where b is no more than 20.

Answer:

12 Write 0.0125 as a fraction in its simplest form.

Answer:

13 Show that $\frac{3}{16} = 0.1875$ as a decimal, and write 3.1875 as a mixed number in its simplest form.

Answer:
