Fractions and decimals: 10 practice questions

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Name: _____ Date: _____

Attempt all questions and show your working. Suggested time: 15 to 20 minutes.

Section A: Consolidating (Questions 1-4)

Question 1

Calculate, giving each answer in simplest form.

(a) ⅔ × ⅘

(b) ¾ × 2/9

(c) ½ × 5 (give your answer as a mixed number)

Question 2

Calculate:

(a) 0.4 × 3

(b) 0.6 × 0.7

(c) 2.5 × 4

Question 3

Write the reciprocal of each number.

(a) 3/7

(b) 5

(c) 2½

Question 4

Calculate:

(a) ½ ÷ ¼

(b) ⅗ ÷ 3

Section B: Standard (Questions 5-10)

Question 5

Calculate:

(a) $1\frac{1}{2} \times 2\frac{2}{3}$

(b) $2\frac{1}{4} \times 1\frac{1}{3}$

Question 6

Calculate, giving each answer as a mixed number.

(a) $\frac{5}{6} \div \frac{2}{3}$

(b) $3\frac{1}{3} \div 1\frac{1}{4}$

Question 7

Find:

(a) $\frac{3}{8}$ of 72 km

(b) $\frac{2}{5}$ of \$45

Question 8

Calculate:

(a) 3.6×0.25

(b) 1.2×0.15

Question 9

Calculate:

(a) $7.2 \div 0.6$

(b) $4.5 \div 0.09$

Question 10

Explain an efficient mental strategy for calculating 0.25×48, and give the answer.

Fractions and decimals: answers

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Question 1

Answer: (a) 8/15 (b) ⅙ (c) 2½

Question 2

Answer: (a) 1.2 (b) 0.42 (c) 10

Question 3

Answer: (a) 7/3 (b) ⅕ (c) ⅖

Question 4

Answer: (a) 2 (b) ⅕

Question 5

Answer: (a) 4 (3/2 × 8/3) (b) 3 (9/4 × 4/3)

Question 6

Answer: (a) 1¼ (⅚ × 3/2) (b) 2⅔ (10/3 × ⅘)

Question 7

Answer: (a) 27 km (b) $18

Question 8

Answer: (a) 0.9 (b) 0.18

Question 9

Answer: (a) 12 (b) 50

Question 10

Answer: 12. Multiplying by 0.25 is the same as finding ¼, so divide 48 by 4 (or halve it twice).