Four operations with 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) $\frac{1}{5} + \frac{2}{5}$

(b) $\frac{7}{8} - \frac{3}{8}$

(c) $\frac{1}{3} + \frac{1}{6}$

Question 2

Calculate:

(a) 2.35 + 4.8

(b) 9.2 - 3.75

Question 3

Calculate:

(a) $\frac{3}{4} \times 8$

(b) $6 \div \frac{1}{3}$

Question 4

Calculate:

(a) 1.5×4

(b) $9.6 \div 3$

Section B: Standard (Questions 5-10)

Question 5

Calculate, giving each answer in simplest form.

(a) $\frac{2}{3} + \frac{3}{4}$ (give your answer as a mixed number)

(b) ⅚ - 2/9

Question 6

Calculate, giving each answer as a mixed number.

(a) 2½ + 1⅔

(b) 4¼ - 1⅚

Question 7

Use the correct order of operations to evaluate:

½ + ⅓ × ¾

Question 8

Evaluate:

(⅗ - ¼) ÷ 7/10

Question 9

Calculate 0.75 + ⅖. Give your answer as a decimal.

Question 10

Ella spends ¼ of her pocket money on a movie ticket and ⅓ of it on food.

(a) What fraction of her pocket money is left?

(b) If her pocket money was $36, how much does she have left?

Four operations with fractions and decimals: answers

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Question 1

Answer: (a) ⅗ (b) ½ (c) ½

Question 2

Answer: (a) 7.15 (b) 5.45

Question 3

Answer: (a) 6 (b) 18

Question 4

Answer: (a) 6 (b) 3.2

Question 5

Answer: (a) 15/12 (8/12 + 9/12) (b) 11/18 (15/18 - 4/18)

Question 6

Answer: (a) 4⅙ (b) 25/12 (51/12 - 22/12)

Question 7

Answer: ¾ (multiply first: ½ + ¼)

Question 8

Answer: ½ (7/20 ÷ 7/10)

Question 9

Answer: 1.15 (0.75 + 0.4)

Question 10

Answer: (a) 5/12 (b) $15