Year 7 multiplying fractions worksheet

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Name: _____ Date: _____

Question 1

Calculate ¾ × ⅖.

Answer: _____

Question 2

Calculate, giving each answer in simplest form.

(a) ⅔ × ⅘

(b) ¾ × 2/9

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

Answer: _____

Question 3

Calculate:

(a) 1½ × 2⅔

(b) 2¼ × 1⅓

Answer: _____

Question 4

Find:

(a) ⅜ of 72 km

(b) ⅖ of $45

Answer: _____

Question 5

Simplify by cancelling common factors before multiplying:

14/15 × 25/28

Answer: _____

Question 6

A recipe needs ⅔ of a cup of flour for one batch of muffins. How many cups of flour are needed for 4½ batches?

Answer: _____

Question 7

A rainwater tank holds 1200 litres when full. It is ⅗ full. Then ¼ of the water in the tank is used to water the garden.

(a) How many litres were in the tank before the garden was watered?

(b) How many litres are left in the tank?

Answer: _____

Question 8

Calculate:

(a) ¾ × 8

(b) 6 ÷ ⅓

Answer: _____

Question 9

Use the correct order of operations to evaluate:

½ + ⅓ × ¾

Answer: _____

Question 10

Evaluate, giving your answer as a fraction in simplest form:

(1½ + ⅔) × 0.6 - ¼ ÷ 0.5

Answer: _____

Year 7 multiplying fractions: answers and worked solutions

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Question 1

Key idea: Multiply the numerators together and the denominators together, then simplify.

1. Multiply the numerators: 3 × 2 = 6 2. Multiply the denominators: 4 × 5 = 20 3. Write the result: 6/20 4. Simplify by dividing numerator and denominator by the highest common factor of 2: 6/20 = 3/10

Answer: 3/10

Question 2

Answer: (a) 8/15 (b) ⅙ (c) 2½

Question 3

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

Question 4

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

Question 5

Answer: ⅚ (14/28 = ½ and 25/15 = 5/3)

Question 6

Answer: 3 cups (⅔ × 9/2)

Question 7

Answer: (a) 720 litres (b) 540 litres (720 × ¾)

Question 8

Answer: (a) 6 (b) 18

Question 9

Answer: ¾ (multiply first: ½ + ¼)

Question 10

Answer: ⅘ (13/6 × ⅗ - ½ = 13/10 - 5/10)