ALBERT

Name _____ Date _____

Multiplying Fractions Worksheet

Grade 5 · Common Core 5.NF.B.4a

> Interpret the product (a/b) × q as a parts of a partition of q into b equal parts; equivalently, as the result of a sequence of operations a × q ÷ b. For example, use a visual fraction model to show (2/3) × 4 = 8/3, and create a story context for this equation. Do the same with (2/3) × (4/5) = 8/15. (In general, (a/b) × (c/d) = (ac)/(bd).

Practice

Builds the skill step by step.

1. $\frac{1}{3} \times 6 = ?$

2. $\frac{2}{3} \times 6 = ?$

3. $\frac{3}{4} \times 8 = ?$

4. Which expression has the same value as $\frac{2}{5} \times 10$?

   A. $2 \times 5 \div 10$

   B. $2 \times 10 \div 5$

   C. $5 \times 10 \div 2$

   D. $10 \div 2 \times 5$

5. $\frac{1}{2} \times \frac{1}{3} = ?$

6. $\frac{3}{4} \times \frac{1}{2} = ?$

7. $\frac{2}{5} \times 3 = ?$ Write your answer as a mixed number.

8. $\frac{1}{4} \times \frac{3}{5} = ?$

9. Which describes $\frac{2}{3} \times 4$?

   A. Split 2 into 4 equal parts and take 3 of the parts.

   B. Make 3 groups of 4, then take 2 away.

   C. Split 4 into 2 equal parts and take 3 of the parts.

   D. Split 4 into 3 equal parts and take 2 of the parts.

10. $\frac{5}{6} \times 12 = ?$

ALBERT

Name _____ Date _____

Multiplying Fractions Worksheet

Grade 5 · Common Core 5.NF.B.4a

On Level

Grade-level practice.

1. $\frac{2}{3} \times \frac{4}{7} = ?$

2. $\frac{3}{8} \times 4 = ?$ Write your answer as a mixed number in simplest form.

3. $\frac{4}{5} \times \frac{5}{6} = ?$ Write your answer in simplest form.

4. Which story matches $\frac{3}{4} \times 8$?

   A. Sara shares 8 apples equally among 3 friends.

   B. Sara has $\frac{3}{4}$ of an apple and buys 8 more apples.

   C. Sara has 8 apples and uses $\frac{3}{4}$ of them in a pie.

   D. Sara has 8 apples, eats 3, then eats 4 more.

5. $\frac{5}{6} \times \frac{3}{10} = ?$ Write your answer in simplest form.

6. $\frac{7}{8} \times 16 = ?$

7. $\frac{2}{9} \times \frac{3}{4} = ?$ Write your answer in simplest form.

8. $\frac{3}{5} \times \frac{2}{3} = ?$ Write your answer in simplest form.

9. $\frac{9}{10} \times 5 = ?$ Write your answer as a mixed number in simplest form.

10. Which fraction is equal to $\frac{3}{4} \times \frac{2}{5}$?

    A. $\frac{5}{20}$

    B. $\frac{3}{10}$

    C. $\frac{5}{9}$

    D. $\frac{15}{8}$

ALBERT

Name _____ Date _____

Multiplying Fractions Worksheet

Grade 5 · Common Core 5.NF.B.4a

Challenge

Multi-step and word problems that stretch it.

1. $\frac{3}{4} \times \frac{2}{3} \times 8 = ?$

2. $\frac{2}{5}$ of what number is 6?

3. Find $\frac{3}{8}$ of 20. Write your answer as a mixed number in simplest form.

4. Which product is greatest?

   A. $\frac{1}{2} \times 12$

   B. $\frac{2}{3} \times 12$

   C. $\frac{3}{4} \times 12$

   D. $\frac{5}{6} \times 12$

5. Kim wrote $\frac{2}{3} \times \frac{3}{5} = \frac{6}{8}$. Find the correct product in simplest form.

6. $\frac{5}{8} \times \frac{4}{5} = ?$ Write your answer in simplest form.

7. Which steps find $\frac{3}{5} \times 20$?

   A. Divide 20 by 5, then multiply by 3.

   B. Divide 20 by 3, then multiply by 5.

   C. Multiply 20 by 5, then divide by 3.

   D. Add 3 and 5, then multiply by 20.

8. $\frac{7}{10} \times \frac{5}{14} = ?$ Write your answer in simplest form.

9. $\frac{4}{9} \times 6 = ?$ Write your answer as a mixed number in simplest form.

10. The product of two fractions is $\frac{6}{35}$. One factor is $\frac{2}{5}$. The other factor has a numerator of 3. What is the other factor?