LESSON MAKER PRO

Fraction Product Quest

Find fractions of whole amounts and fractions.

GRADE 5 · 5.NF.B.4a

CCSS.Math.Content.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..."

NAME _____ DATE _____

SPLIT, TAKE, MULTIPLY

To find a/b of q, split q into b equal parts and take a of those parts. You can also multiply a × q, then divide by b. To multiply two fractions, multiply the numerators and multiply the denominators, then simplify if possible.

WORKED EXAMPLE

Use the shaded fraction bar. Find the product shown.

15



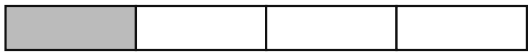
1. The bar is split into 14 equal parts, and 13 parts are shaded.
2. Multiply the numerator by the whole amount: 13 × 15 = 195.
3. Keep 14 as the denominator: 195/14.

Answer: 195/14

PRACTICE 6 problems

1 Use the shaded fraction bar. Write the multiplication and find the product.

8



ANSWER _____

2 Use the shaded fraction bar. Write the multiplication and find the product.

10



ANSWER _____

3 Find 2/3 × 11. Write the product in simplest form.

ANSWER _____

4 Find 4/8 × 12. Write the product in simplest form.

ANSWER _____

5 Find 2/3 × 5/8. Write the product in simplest form.

ANSWER _____

6 Find 7/10 × 16. Write the product in simplest form.

ANSWER _____

APPLY IT Show your work

1 At a school game tournament, 2/5 of 30 players chose the puzzle game. How many players chose the puzzle game?

WORK SPACE

ANSWER _____

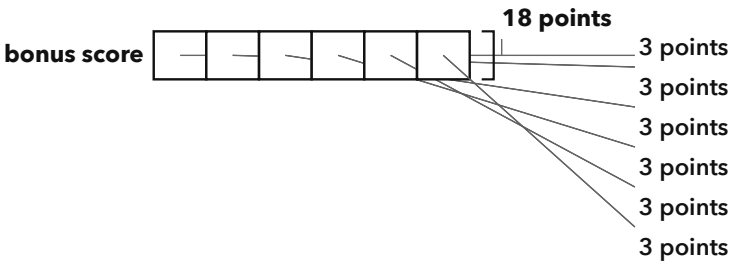
2 For a digital poster, 3/4 of the canvas is blue. Of the blue part, 2/3 is covered with stars. What fraction of the entire canvas is covered with stars?

WORK SPACE

ANSWER _____

CHALLENGE One step up

The tape shows a bonus score split into equal parts. A player earns 5/6 of the score. How many points does the player earn? Explain how the tape supports your answer.



WORK SPACE AND ANSWER

ANSWER KEY

Fraction Product Quest

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Use the shaded fraction bar. Write the multiplication and find the product.	**1/4 × 8 = 2**
2	Use the shaded fraction bar. Write the multiplication and find the product.	**3/9 × 10 = 10/3**
3	Find 2/3 × 11. Write the product in simplest form.	**22/3**
4	Find 4/8 × 12. Write the product in simplest form.	**6**
5	Find 2/3 × 5/8. Write the product in simplest form.	**5/12**
6	Find 7/10 × 16. Write the product in simplest form.	**56/5**

PART 2 · APPLY IT

1. **12 players** Find 2/5 of 30 by multiplying 2 × 30 and dividing by 5. The result is 12.
2. **1/2** Multiply the fraction of the canvas that is blue by the fraction of blue that has stars: 3/4 × 2/3 = 6/12 = 1/2.

CHALLENGE

15 points. The tape has 6 equal parts of 3 points each. Taking 5 parts gives 5 × 3 = 15 points.

Accept equivalent fractions and mixed numbers for improper-fraction answers. For the challenge, accept explanations that identify 6 equal groups of 3 and select 5 groups.