LESSON MAKER PRO

Fraction of It

Find amounts smaller and larger than a whole.

GRADE 5 · 5.NOS.D.11.b

5.NOS.D.11.b "Multiply a whole number by a fraction (e.g., interpret c/d × b as c/d of b when c/d is greater than or less than 1)."

NAME _____ DATE _____

FIND A FRACTION OF A NUMBER

To find a fraction of a whole number, divide the whole number by the denominator. Then multiply by the numerator. This works whether the fraction is less than or greater than 1.

WORKED EXAMPLE

Find 5/8 of 24.

1. 24 ÷ 8 = 3
2. 3 × 5 = 15

Answer: 15

PRACTICE 6 problems

1 Find 2/3 of 12.

ANSWER _____

2 Find 7/3 of 9.

ANSWER _____

3 Find 3/4 of 16.

ANSWER _____

4 Find 3/2 of 14.

ANSWER _____

5 Find 4/7 of 28.

ANSWER _____

6 Find 9/4 of 20.

ANSWER _____

APPLY IT Show your work

1 You have 42 beads for friendship bracelets. You use 2/7 of them. How many beads do you use?

WORK SPACE

ANSWER _____

2 In a game, you usually earn 18 points for finishing a round. During a bonus round, you earn 3/2 of the usual points. How many points do you earn?

WORK SPACE

ANSWER _____

CHALLENGE One step up

At a game-building club, Jay plans to spend 28 minutes on a project. He spends 9/4 of that time building and 3/4 of that time testing. How many minutes does he spend building and testing in all? Show how you know.

WORK SPACE AND ANSWER

Fraction of It

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Find 2/3 of 12.	**8**
2	Find 7/3 of 9.	**21**
3	Find 3/4 of 16.	**12**
4	Find 3/2 of 14.	**21**
5	Find 4/7 of 28.	**16**
6	Find 9/4 of 20.	**45**

PART 2 · APPLY IT

1. **12 beads** 42 ÷ 7 = 6, and 6 × 2 = 12.
2. **27 points** 18 ÷ 2 = 9, and 9 × 3 = 27.

CHALLENGE

84 minutes. Building takes 28 ÷ 4 × 9 = 63 minutes, and testing takes 28 ÷ 4 × 3 = 21 minutes. Together, that is 63 + 21 = 84 minutes.

Accept equivalent calculations, including multiplying the numerator before dividing by the denominator. For the challenge, accept 28 × (9/4 + 3/4) = 84.