

Multiplication of Fractions and Whole Number

Exit Quiz
Math 5

Part A: Use a tape diagram to find the value of the following.

1. $\frac{3}{7}$ of 21 = ?

2. $\frac{5}{8}$ of 32 = ?

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Part B: Multiply the following.

1. $\frac{2}{3}$ of 33 = ?

2. $\frac{4}{9}$ of 54 = ?

3. $\frac{5}{7}$ of 84 = ?

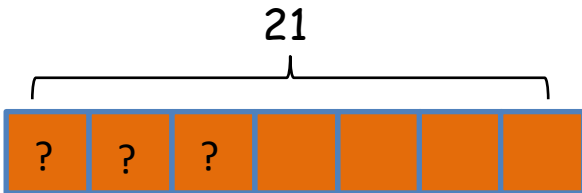
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Answers:

Part A: Use a tape diagram to find the value of the following.

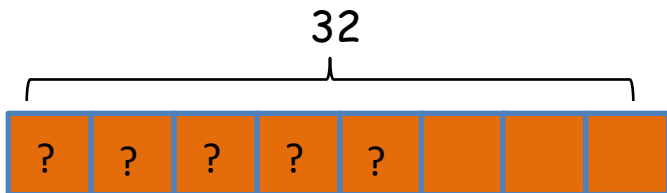
1. $\frac{3}{7}$ of 21 = 9



$7 \text{ units} = 21$ $1 \text{ unit} = 21 \div 7$ $1 \text{ unit} = 3$ $\frac{1}{7} \text{ of } 21 = 3$
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If 1 unit = 3, then: $3 \text{ units} = 3 \times 3$ $3 \text{ units} = 9$ $\frac{3}{7} \text{ of } 21 = 9$

2. $\frac{5}{8}$ of 32 = 20



$8 \text{ units} = 32$ $1 \text{ unit} = 32 \div 8$ $1 \text{ unit} = 4$ $\frac{1}{8} \text{ of } 32 = 4$
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If 1 unit = 4, then: $5 \text{ units} = 5 \times 4$ $5 \text{ units} = 20$ $\frac{5}{8} \text{ of } 32 = 20$

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1. $\frac{2}{3}$ of 33 = ?

$$\begin{aligned}\frac{2}{3} \times \frac{33}{1} &= \frac{(2)(33)}{(3)(1)} \\ &= \frac{66}{3} \\ &= 22\end{aligned}$$

2. $\frac{4}{9}$ of 54 = ?

$$\begin{aligned}\frac{4}{9} \times \frac{54}{1} &= \frac{(4)(54)}{(9)(1)} \\ &= \frac{162}{9} \\ &= 18\end{aligned}$$

3. $\frac{5}{7}$ of 84 = ?

$$\begin{aligned}\frac{5}{7} \times \frac{84}{1} &= \frac{(5)(84)}{(7)(1)} \\ &= \frac{420}{7} \\ &= 60\end{aligned}$$