

Using Fractions as Operators

4a. The statements can be completed by using the same non-unit fraction. Find the missing fraction.

$$20 \times \frac{\square}{\square} = \frac{\square}{\square} \text{ of } 20 = 15$$

$$16 \times \frac{\square}{\square} = \frac{\square}{\square} \text{ of } 16 = 12$$



PS

Using Fractions as Operators

4b. The statements can be completed by using the same non-unit fraction. Find the missing fraction.

$$24 \times \frac{\square}{\square} = \frac{\square}{\square} \text{ of } 24 = 16$$

$$18 \times \frac{\square}{\square} = \frac{\square}{\square} \text{ of } 18 = 12$$



PS

5a. Circle the odd one out.

A. 10

B. $14 \times \frac{5}{7}$

C. 7

D. $\frac{5}{7}$ of 14

Explain your reasoning.



R

5b. Circle the odd one out.

A. $\frac{4}{9}$ of 27

B. 3

C. $27 \times \frac{4}{9}$

D. 12

Explain your reasoning.



R

6a. Scott and Anya are using fractions as operators.

Scott says,

$$10 \text{ lots of } \frac{3}{5} = \frac{3}{5} \text{ of } 10$$



Anya says,

$$\frac{3}{5} \text{ of } 10 = 10 \text{ lots of } 3 \times 5$$



Who is correct? Convince me.



R

6b. Mo and Lily are using fractions as operators.

Mo says,

$$\frac{3}{4} \text{ of } 12 = 12 \text{ lots of } 3$$



Lily says,

$$\frac{3}{4} \text{ of } 12 = 12 \times \frac{3}{4}$$



Who is correct? Convince me.



R

Using Fractions as Operators

7a. The statements can be completed by using the same improper fraction. Find the missing improper fraction.

$$15 \times \frac{\square}{\square} = \frac{\square}{\square} \text{ of } 15 = \frac{60}{3} = 20$$

$$24 \times \frac{\square}{\square} = \frac{\square}{\square} \text{ of } 24 = \frac{96}{3} = 32$$



PS

Using Fractions as Operators

7b. The statements can be completed by using the same improper fraction. Find the missing improper fraction.

$$20 \times \frac{\square}{\square} = \frac{\square}{\square} \text{ of } 20 = \frac{100}{4} = 25$$

$$8 \times \frac{\square}{\square} = \frac{\square}{\square} \text{ of } 8 = \frac{40}{4} = 10$$



PS

8a. Circle the odd one out.

A. $\frac{7}{5}$ of 15

B. 28

C. $15 \times \frac{7}{5}$

D. 21

Explain your reasoning.



R

8b. Circle the odd one out.

A. 44

B. $\frac{5}{2}$ of 22

C. $22 \times \frac{5}{2}$

D. 55

Explain your reasoning.



R

9a. Alfie and Tasmin are using fractions as operators.

Alfie says,

$$\frac{6}{4} \text{ of } 16 = 16 \text{ lots of } 6 \times 4.$$



Tasmin says,

$$16 \times \frac{6}{4} = \frac{6}{4} \text{ of } 16$$



Who is correct? Convince me.



R

9b. Luke and Freya are using fractions as operators.

Luke says,

$$24 \text{ lots of } \frac{5}{3} = \frac{5}{3} \text{ of } 24$$



Freya says,

$$\frac{5}{3} \text{ of } 24 = 24 \times \frac{5}{3}$$



Who is correct? Convince me.



R