Using Fractions as Operators

Using Fractions as Operators

1a. The statements can be completed by using the same unit fraction. Find the missing fraction.

1b. The statements can be completed by using the same unit fraction. Find the missing fraction.



2a. Circle the odd one out.

A.
$$\frac{1}{2}$$
 of 16

C. 16 x
$$\frac{1}{2}$$

2b. Circle the odd one out.

A.
$$\frac{1}{4}$$
 of 20

C. 20 x
$$\frac{1}{4}$$

Explain your reasoning.

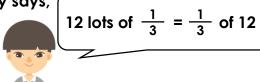


Explain your reasoning.



3a. Danny and Sarah are using fractions as operators.

Danny says,



$$\frac{1}{3}$$
 of 12 = 12 x 3

3

Sarah says,

Who is correct? Convince me.



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3b. Jake and Kiran are using fractions as operators.

Jake says,



$$\frac{1}{2}$$
 of 14 = 2 lots of 14

 $\frac{1}{2}$ of 14 = 14 x $\frac{1}{2}$



Who is correct? Convince me.



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

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



5a. Circle the odd one out.

- A. 10
- B. 14 x $\frac{5}{7}$
- D. $\frac{5}{7}$ of 14

Explain your reasoning.



5b. Circle the odd one out.

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

- C. 27 x $\frac{4}{9}$
- D. 12

Explain your reasoning.



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

Scott says,



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

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





Who is correct? Convince me.



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

Mo says,



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

 $\frac{3}{4}$ of 12 = 12 x $\frac{3}{4}$



Who is correct? Convince me.



Using Fractions as Operators

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

15 x
$$=$$
 = of 15 = $\frac{60}{3}$ = 20

24 x
$$=$$
 = of 24 = $\frac{96}{3}$ = 32

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

20 x = = of 20 =
$$\frac{100}{4}$$
 = 25

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



8a. Circle the odd one out.

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

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

8b. Circle the odd one out.

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

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

Explain your reasoning.



Explain your reasoning.



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

Alfie says,



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

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



Who is correct? Convince me.



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

Luke says,



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

$$\frac{5}{3}$$
 of 24 = 24 x $\frac{5}{3}$

Freya says,

Who is correct? Convince me.



