

Inverse Operations

1a. Circle the incorrect statement in the fact family shown below.

$$3 \times 4 = 12$$

$$12 \div 3 = 4$$

$$4 \div 3 = 12$$

$$12 = 3 \times 4$$

Explain your reasoning.



R

Inverse Operations

1b. Circle the incorrect statement in the fact family shown below.

$$20 \div 5 = 4$$

$$21 = 5 \times 4$$

$$4 \times 5 = 20$$

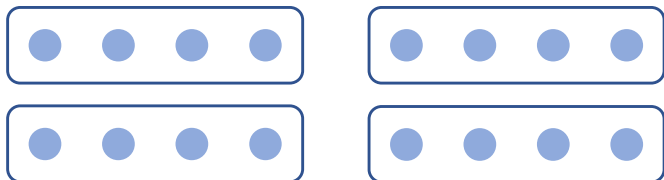
$$20 = 4 \times 5$$

Explain your reasoning.



R

2a. Raoul draws the representation below.



He says,



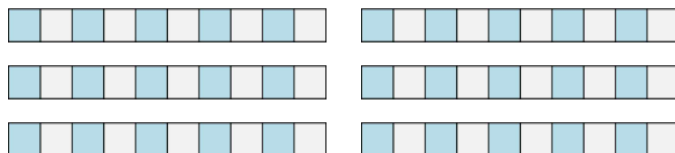
$$15 \div 4 = 4$$

Is Raoul correct?
Prove it using the inverse operation.



R

2b. Leyla draws the representation below.



She says,



$$10 \times 6 = 60$$

Is Leyla correct?
Prove it using the inverse operation.



R

3a. Match each child to the numbers below.



Daisy

When I multiply my number by 2, I get the product 14,



Dean

My number divided by 5 is 4.



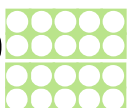
Tia

When I divide my number into 3 equal parts, I get 5,

7



20



15



PS



3b. Match each child to the numbers below.



Leo

When I divide my number into 5 equal parts, I get 5.



Carly

My number multiplied by 3 is 18.



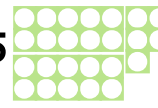
Seb

When I multiply my number by 4, I get the product 32.

8



25



6



PS



Inverse Operations

4a. Circle the incorrect statement in the fact family shown below.

$$40 \div 8 = 5$$

$$8 \times 5 = 40$$

$$40 \div 5 = 8$$

$$40 \times 5 = 8$$

$$5 \times 8 = 40$$

$$40 = 8 \times 5$$

Explain your reasoning.



R

Inverse Operations

4b. Circle the incorrect statement in the fact family shown below.

$$42 = 6 \times 7$$

$$42 = 6 \div 7$$

$$42 \div 7 = 6$$

$$42 \div 6 = 7$$

$$42 = 7 \times 6$$

$$6 \times 7 = 42$$

Explain your reasoning.



R

5a. Jon says,



I know that $72 \div 12 = 6$, so I also know that $12 \div 6 = 72$.

Is Jon correct? Explain how you know.



R

5b. Seema says,



I know that $48 \div 12 = 4$, so I also know that $12 \div 4 = 48$.

Is Seema correct? Explain how you know.



R

6a. Match each child to the numbers below.



Evie

When I multiply my number by 7, I get the product 49.



Ian

Two identical factors are multiplied to make my number.



Lily

When I divide my number into 5 equal parts, I get 12.

64

60

7



PS

6b. Match each child to the numbers below.



Josh

When I divide my number into 12 equal parts, I get 3.



Seema

My number multiplied by itself is 81.



Archie

When I multiply my number by 6, I get the product 36.

6

36

9



PS

Inverse Operations

7a. Circle the incorrect statement in the calculations below.

$$72 = 9 \times 8$$

$$36 \div 4 = 9$$

$$36 \div 9 = 4$$

$$72 = 8 \div 9$$

$$36 = 9 \times 4$$

$$72 \div 8 = 9$$

Explain your reasoning.



R

Inverse Operations

7b. Circle the incorrect statement in the calculations below.

$$108 \div 12 = 9$$

$$54 \div 9 = 6$$

$$9 \times 6 = 54$$

$$108 = 9 \times 12$$

$$108 = 12 \times 9$$

$$12 \div 9 = 108$$

Explain your reasoning.



R

8a. Stacey says,



If I know that $48 \div 8 = 6$, I can work out the answer to 6×16 .

Is Stacey correct? Explain how you know.



R

8b. Danny says,



If I know that $24 \div 8 = 3$, I can work out the answer to 3×16 .

Is Danny correct? Explain how you know.



R

9a. Each child below is describing the same number. What is their number?



Khal

I can divide the number into 8 equal parts.



Sonia

One of its factors is 36.



Ryan

The digits of my number add up to 9.



PS

9b. Each child below is describing the same number. What is their number?



Leah

I can divide the number into 12 equal parts.



Edna

One of its factors is 24.



David

The digits of my number add up to 15.



PS