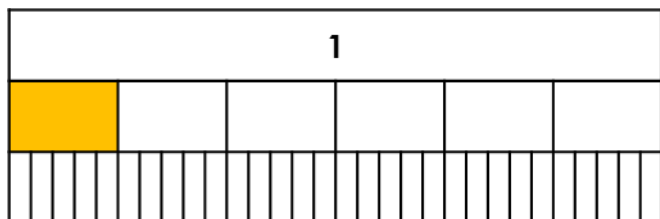


Divide Fractions by Integers 2

Divide Fractions by Integers 2

1a. What is the missing number? How did you know?

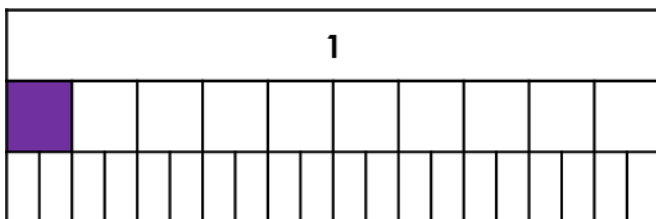
$$\frac{1}{6} \div \text{[green splat]} = \frac{1}{30}$$



R

1b. What is the missing number? How did you know?

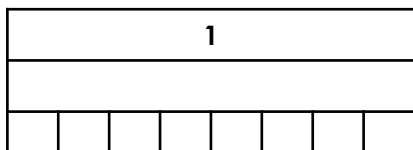
$$\frac{1}{10} \div \text{[pink splat]} = \frac{1}{20}$$



R

2a. Fill in the missing numbers to make the equation correct.

$$\frac{1}{\boxed{}} \div \boxed{} = \frac{1}{8}$$



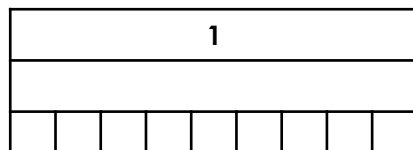
Complete the bar model to help you.



PS

2b. Fill in the missing numbers to make the equation correct.

$$\frac{1}{\boxed{}} \div \boxed{} = \frac{1}{9}$$



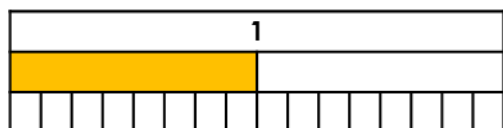
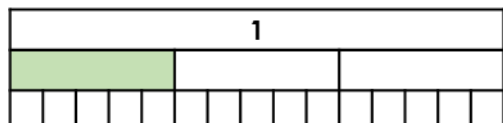
Complete the bar model to help you.



PS

3a. Which statement is incorrect?

- A. $\frac{1}{2} \div 8 > \frac{1}{3} \div 5$
- B. $\frac{1}{2} \div 8 < \frac{1}{3} \div 5$



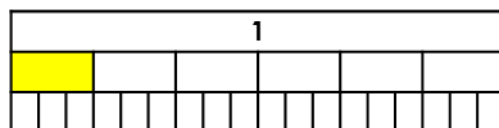
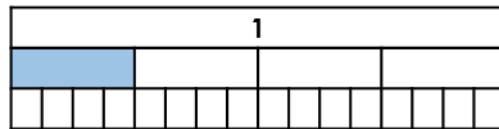
Prove it using the bar models.



R

3b. Which statement is incorrect?

- A. $\frac{1}{4} \div 4 > \frac{1}{6} \div 3$
- B. $\frac{1}{4} \div 4 < \frac{1}{6} \div 3$



Prove it using the bar models.



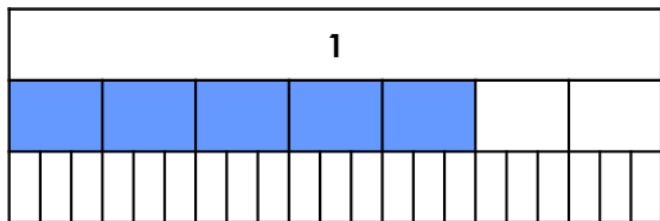
R

Divide Fractions by Integers 2

Divide Fractions by Integers 2

4a. What is the missing number? How did you know?

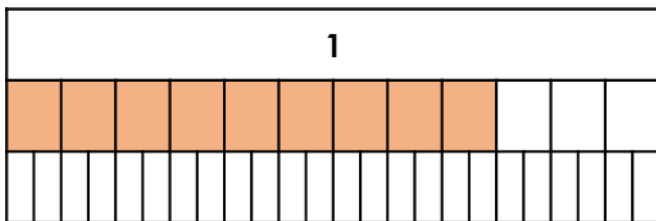
$$\frac{5}{7} \div \text{[Image: Blue splash]} = \frac{5}{21}$$



R

4b. What is the missing number? How did you know?

$$\frac{9}{12} \div \text{[Image: Red virus]} = \frac{9}{24}$$



R

5a. Fill in the missing numbers to make the equation correct.

$$\frac{3}{\boxed{}} \div \boxed{} = \frac{3}{12}$$

Draw a model to help you.
Find 2 possible solutions.



PS

5b. Fill in the missing numbers to make the equation correct.

$$\frac{4}{\boxed{}} \div \boxed{} = \frac{4}{30}$$

Draw a model to help you.
Find 2 possible solutions.



PS

6a. Which statement is incorrect?

A. $\frac{5}{6} \div 7 > \frac{5}{12} \div 8$

B. $\frac{3}{5} \div 6 > \frac{3}{7} \div 2$

Draw models to prove your answer.



R

6b. Which statement is incorrect?

A. $\frac{5}{9} \div 3 < \frac{5}{6} \div 4$

B. $\frac{4}{6} \div 10 = \frac{4}{11} \div 5$

Draw models to prove your answer.



R

Divide Fractions by Integers 2

Divide Fractions by Integers 2

7a. What is the missing number? How did you know?

$$2 \frac{5}{7} \div \text{[orange blob]} = \frac{19}{28}$$



R

7b. What is the missing number? How did you know?

$$3 \frac{9}{10} \div \text{[black blob]} = \frac{39}{80}$$



R

8a. Fill in the missing numbers to make the equation correct.

$$4 \frac{3}{\boxed{}} \div \boxed{} = \frac{19}{20}$$

Draw a model to help you.



PS

8b. Fill in the missing numbers to make the equation correct.

$$1 \frac{6}{\boxed{}} \div \boxed{} = \frac{13}{63}$$

Draw a model to help you.



PS

9a. Which statement is incorrect?

A. $\frac{19}{6} \div 7 > \frac{19}{12} \div 4$

B. $\frac{47}{5} \div 9 = \frac{47}{8} \div 6$

Draw models to prove your answer.



R

9b. Which statement is incorrect?

A. $\frac{37}{7} \div 8 > \frac{37}{5} \div 10$

B. $\frac{93}{9} \div 4 > \frac{93}{10} \div 5$

Draw models to prove your answer.



R

Reasoning and Problem Solving

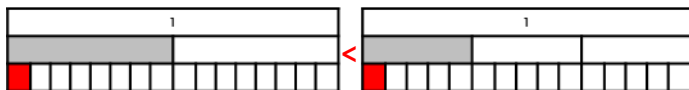
Divide Fractions by Integers 2

Developing

1a. **5 because $6 \times 5 = 30$**

2a. **Various answers, for example: $\frac{1}{2} \div 4 = \frac{1}{8}$**

3a. **A is incorrect because $\frac{1}{16} < \frac{1}{15}$**



Expected

4a. **3 because $7 \times 3 = 21$**

5a. **Various answers, for example:**

$$\frac{3}{6} \div 2 = \frac{3}{12} ; \frac{3}{4} \div 3 = \frac{3}{12}$$

6a. **B is incorrect because $\frac{3}{30} < \frac{3}{14}$**

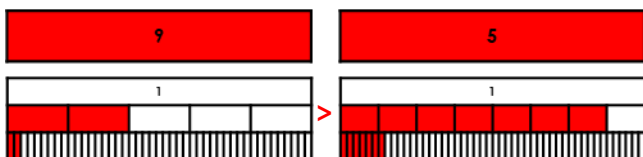


Greater Depth

7a. **4 because $7 \times 4 = 28$**

$$8a. 4 \frac{3}{4} \div 5 = \frac{19}{20}$$

9a. **B is incorrect because $\frac{47}{45} > \frac{47}{48}$**



Reasoning and Problem Solving

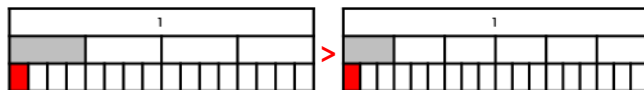
Divide Fractions by Integers 2

Developing

1b. **2 because $10 \times 2 = 20$**

$$2b. \frac{1}{3} \div 3 = \frac{1}{9}$$

3b. **B is incorrect because $\frac{1}{16} > \frac{1}{18}$**



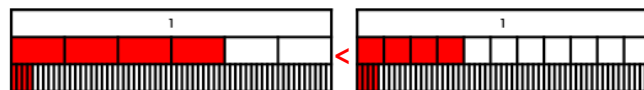
Expected

4b. **2 because $12 \times 2 = 24$**

5b. **Various answers, for example:**

$$\frac{4}{10} \div 3 = \frac{4}{30} ; \frac{4}{5} \div 6 = \frac{4}{30}$$

6b. **B is incorrect because $\frac{4}{60} < \frac{4}{55}$**



Greater Depth

7b. **8 because $10 \times 8 = 80$**

$$8b. 1 \frac{6}{7} \div 9 = \frac{13}{63}$$

9b. **A is incorrect because $\frac{37}{56} > \frac{37}{50}$**

