Multiply Fractions

Grade 5: Unit 3: Lesson 6

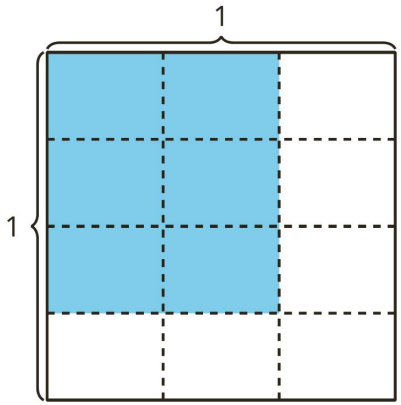
Let’s multiply two non-unit fractions using diagrams and expressions.

Which One Doesn’t Belong: More Pieces

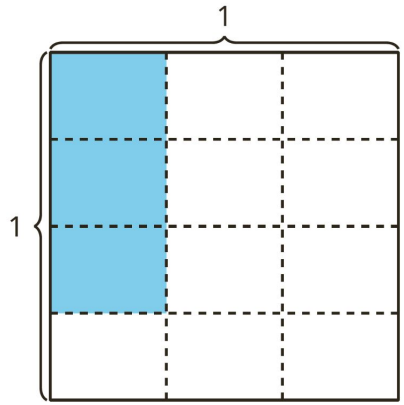
Warm-Up

Which one doesn't belong?

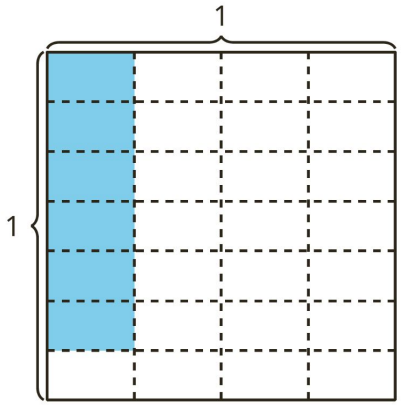
A.



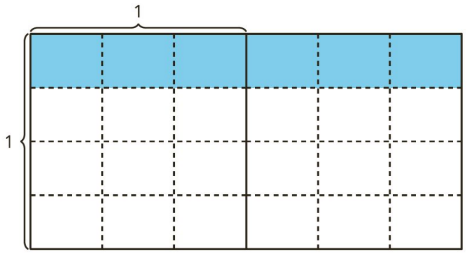
B.



C.

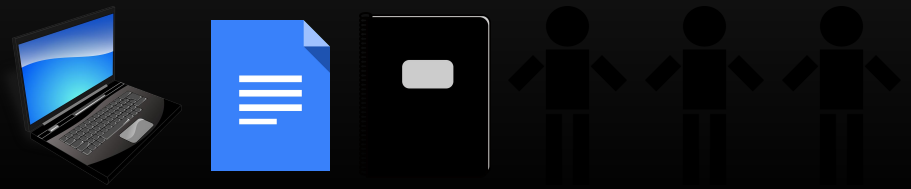


D.

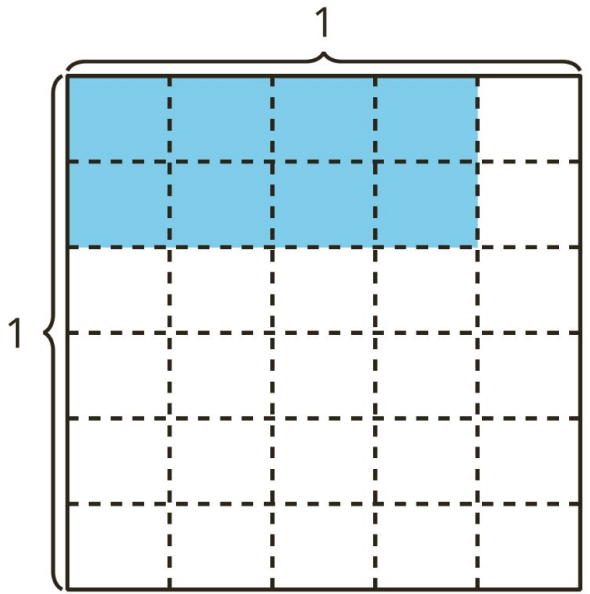


Many Expressions

Activity 1



Explain or show how each expression can represent the area of the shaded region in square units. Be prepared to share your thinking.



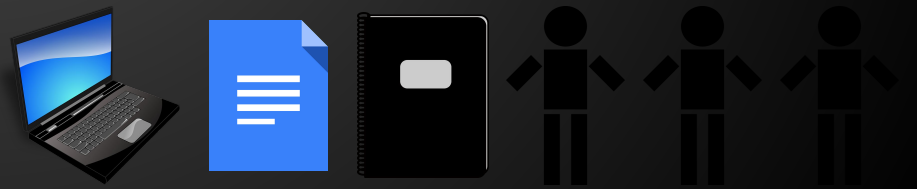
a. $\frac{8}{30}$

b. $2 \times 4 \times (\frac{1}{5} \times \frac{1}{6})$

c. $\frac{2}{6} \times \frac{4}{5}$

More Patterns

Activity 2



a. Complete the table.

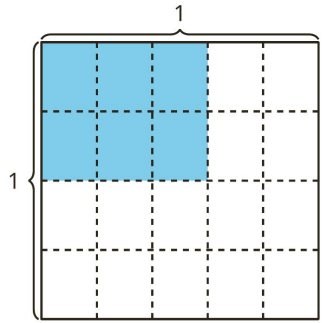
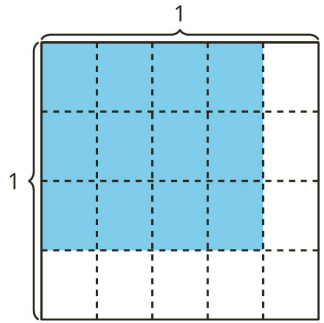
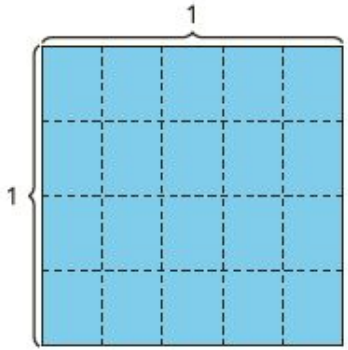
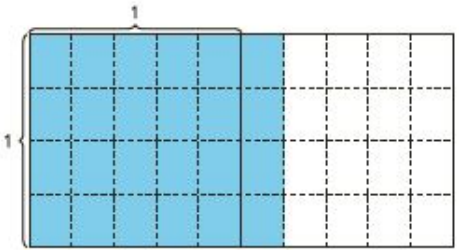
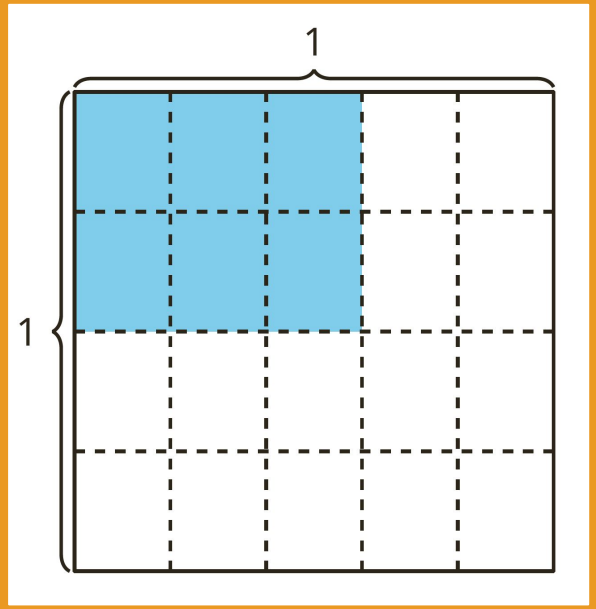
diagram	multiplication expression	shaded area (square units)
A 		
B 		

diagram	multiplication expression	shaded area (square units)
C 		
D 		

b. What patterns do you notice in the table?

c. Explain or show how the expression $\frac{6\times4}{5\times4}$ represents the last diagram in the table.

Lesson Synthesis

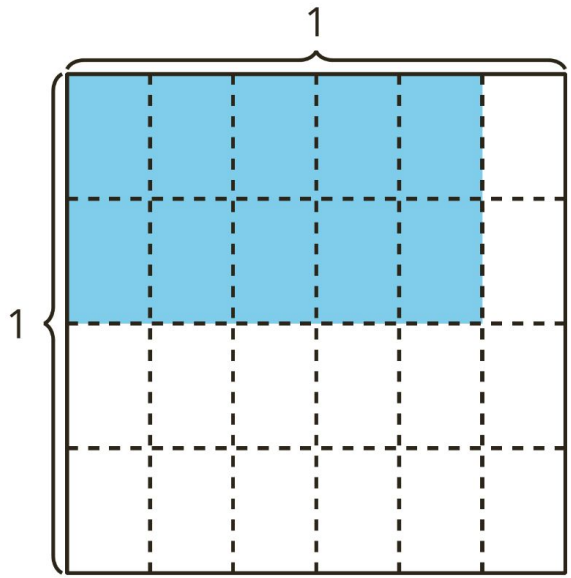


$$\frac{2}{4} \times \frac{3}{5}$$

What Is the Area?

Cool-Down

Cool Down: What Is the Area?



a. Write a multiplication expression to represent the area of the shaded region in square units.

b. What is the area of the shaded region in square units?

Image Citations

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