

Year 6

Multiply Fractions

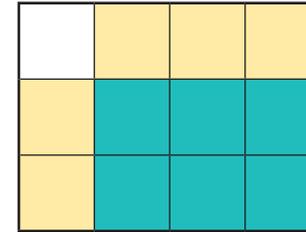
Challenge Cards



Year 6 Multiply Fractions

Challenge Cards

1. Pavel draws this diagram to illustrate the multiplication of two fractions:



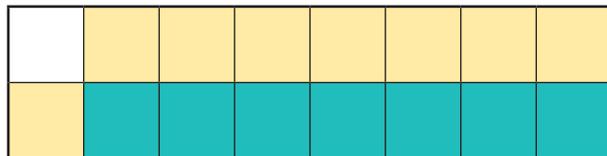
Explain which fractions are multiplied, how the diagram illustrates the multiplication and write the answer.

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Year 6 Multiply Fractions

Challenge Cards

2. Nikita draws this diagram to illustrate the multiplication of two fractions:



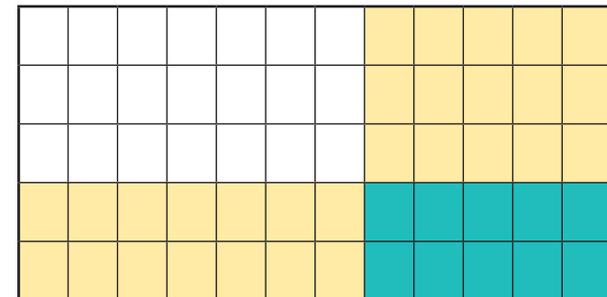
Explain which fractions are multiplied, how the diagram illustrates the multiplication and write the answer.

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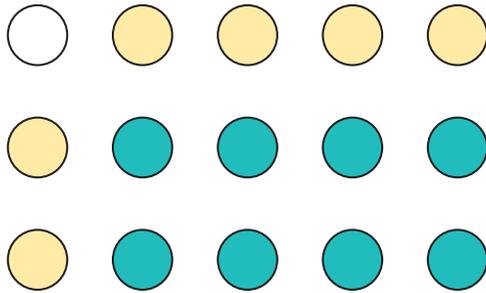
3. George draws this diagram to illustrate the multiplication of two fractions:



Explain which fractions are multiplied, how the diagram illustrates the multiplication and write the answer.

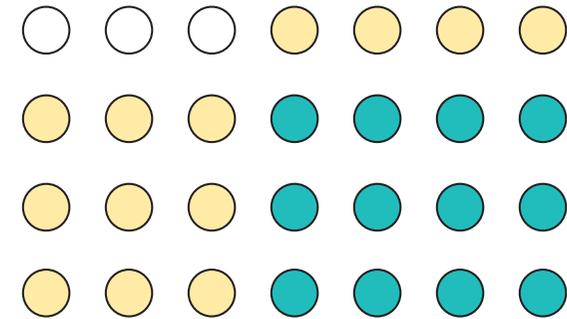
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4. Pavel uses counters to illustrate the multiplication of two fractions:



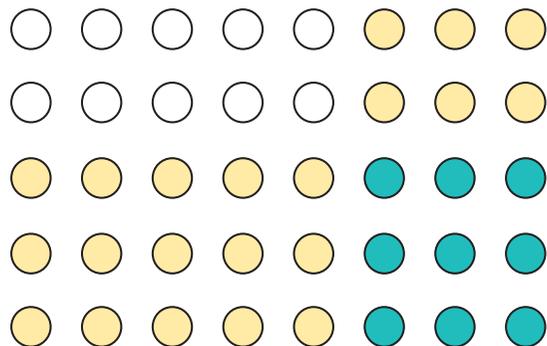
Explain which fractions are multiplied, how the diagram illustrates the multiplication and write the answer.

5. Nikita uses counters to illustrate the multiplication of two fractions:



Explain which fractions are multiplied, how the diagram illustrates the multiplication and write the answer.

6. Nikita uses counters to illustrate the multiplication of two fractions:



Explain which fractions are multiplied, how the diagram illustrates the multiplication and write the answer.

7. George multiplies 2 fractions and the answer is $\frac{1}{2}$.

What could the fractions be?

Find at least 3 pairs of fractions that make $\frac{1}{2}$ when multiplied together.

8. Nikita multiplies 2 fractions and the answer is $\frac{3}{8}$.

What could the fractions be?

Find at least 3 pairs of fractions that make $\frac{3}{8}$ when multiplied together.

9. Pavel multiplies 2 fractions and the answer is $\frac{3}{10}$.

What could the fractions be?

Find at least 3 pairs of fractions that make $\frac{3}{10}$ when multiplied together.

10. Nikita multiplies 3 fractions and the answer is $\frac{1}{4}$.

What could the fractions be?

Find 3 fractions that make $\frac{1}{4}$ when multiplied together.

Year 6 Multiply Fractions Answers

1.



There are 3 rows and 2 are fully shaded, representing $\frac{2}{3}$.

There are 4 columns and 3 are fully shaded, representing $\frac{3}{4}$.

The diagram represents $\frac{2}{3} \times \frac{3}{4} = \frac{6}{12}$ or $\frac{1}{2}$.

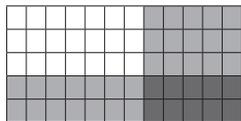
2.



There are 2 rows and 1 is fully shaded, representing $\frac{1}{2}$.

There are 8 columns and 7 are fully shaded, representing $\frac{7}{8}$.

The diagram represents $\frac{7}{8} \times \frac{1}{2} = \frac{7}{16}$.

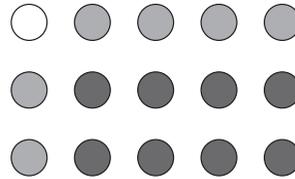


3. There are 5 rows and 2 are fully shaded, representing $\frac{2}{5}$.

There are 12 columns and 5 are fully shaded, representing $\frac{5}{12}$.

The diagram represents $\frac{2}{5} \times \frac{5}{12} = \frac{10}{60}$ or $\frac{1}{6}$.

4.

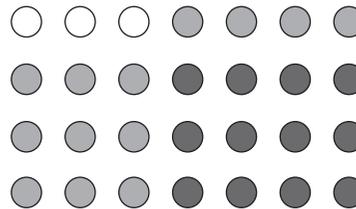


There are 3 rows and 2 are fully shaded, representing $\frac{2}{3}$.

There are 5 columns and 4 are fully shaded, representing $\frac{4}{5}$.

The diagram represents $\frac{2}{3} \times \frac{4}{5} = \frac{8}{15}$.

5.

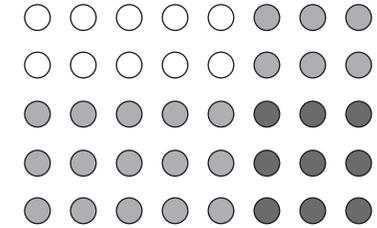


There are 4 rows and 3 are fully shaded, representing $\frac{3}{4}$.

There are 7 columns and 4 are fully shaded, representing $\frac{4}{7}$.

The diagram represents $\frac{3}{4} \times \frac{4}{7} = \frac{12}{28} = \frac{3}{7}$.

6.



There are 5 rows and 3 are fully shaded, representing $\frac{3}{5}$.

There are 8 columns and 3 are fully shaded, representing $\frac{3}{8}$.

The diagram represents $\frac{3}{5} \times \frac{3}{8} = \frac{9}{40}$.

7. Find at least 3 pairs of fractions that make $\frac{1}{2}$ when multiplied together.

$\frac{3}{4} \times \frac{2}{3}$, $\frac{4}{5} \times \frac{5}{8}$, $\frac{5}{6} \times \frac{3}{5}$ and other possible answers.

8. Find at least 3 pairs of fractions that make $\frac{3}{8}$ when multiplied together.

$\frac{3}{4} \times \frac{1}{2}$, $\frac{1}{4} \times \frac{3}{2}$, $\frac{1}{8} \times \frac{6}{2}$

9. $\frac{3}{5} \times \frac{1}{2}$, $\frac{1}{5} \times \frac{3}{2}$, $\frac{2}{5} \times \frac{3}{4}$ and other possible answers.

10. $\frac{1}{2} \times \frac{2}{3} \times \frac{3}{4}$ and other possible answers.