



Questions?  
Ask a live tutor now!

Ask Question 

Use algebraic properties to make expressions simpler.  
 $15 \frac{3}{6} + 12 + \frac{3}{6}$

Question

$$15 \frac{3}{6} + 12 + \frac{3}{6}$$
$$\left(15 \frac{3}{6} + \frac{3}{6}\right) + 12$$
$$16 + 12$$

Answer

28

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[Subtracting real numbers](#)

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[Dividing signed numbers and ...](#)

[Percentages](#)

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Use algebraic properties to make expressions simpler.

$$4\frac{1}{4} + 5 - \frac{1}{4}$$

Question

$$4\frac{1}{4} + 5 - \frac{1}{4}$$

$$4\frac{\cancel{1}}{\cancel{4}} - \frac{\cancel{1}}{\cancel{4}} + 5$$

$$4 + 5$$

9

Answer

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Use algebraic properties to make expressions simpler.

$$\frac{1}{3} * 4 * \frac{1}{2} * 6$$

Question

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

$$\left(\frac{1}{2} \times 4\right) \times \left(\frac{1}{3} \times 6\right)$$

$$2 \times 2$$

Answer

4

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Use algebraic properties to make expressions simpler.

$$25 + 45 + 50 + 25$$

Question

$$25 + 45 + 50 + 25$$

$$(25 + 25) + 50 + 45$$

$$(50 + 50) + 45$$

$$100 + 45$$

$$\boxed{145}$$

Answer

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Use algebraic properties to make expressions simpler.

$$15 \star 12$$

Question

$$15 \times 12$$

$$15 \times (10 + 2)$$

$$15 \times 10 + 15 \times 2$$

$$150 + 30$$

$$180$$

Answer

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Use algebraic properties to make expressions simpler.  
 $10 \times 9 \times \frac{1}{2} \times \frac{1}{3}$

Question

$$10 \times 9 \times \frac{1}{2} \times \frac{1}{3}$$
$$\left(10 \times \frac{1}{2}\right) \times \left(9 \times \frac{1}{3}\right)$$
$$5 \times 3$$

The diagram shows the simplification process. The original expression is  $10 \times 9 \times \frac{1}{2} \times \frac{1}{3}$ . It is then grouped into  $\left(10 \times \frac{1}{2}\right) \times \left(9 \times \frac{1}{3}\right)$ . The first group simplifies to 5, and the second group simplifies to 3, resulting in  $5 \times 3$ . Green arrows indicate the simplification of  $10 \times \frac{1}{2}$  to 5 and  $9 \times \frac{1}{3}$  to 3. A blue arrow points from the  $\frac{1}{3}$  in the second group to the  $\frac{1}{2}$  in the first group, suggesting a cross-cancellation step.

Answer

15

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