

Equations with + − × ÷

Is each equation true? Find the value of each side first.

Write the value of each side. Circle True or False.

Example

$48 \div 6 = 2 \times 4$

8

8

True

False

1. $300 + 45 = 400 - 55$

True

False

2. $12 \times 5 = 50 + 5$

True

False

3. $6 \times 9 = 60 - 6$

True

False

4. $90 \div 3 = 5 \times 6$

True

False

5. $9 \times 12 = 100 + 18$

True

False

6. $640 + 60 = 800 - 200$

True

False

7. $96 \div 8 = 4 \times 3$

True

False

8. $56 \div 4 = 7 \times 3$

True

False

Circle True or False. Then tell how you know.

9. $6 \times 8 = 48 + 2$

True

False

How do you know? _____

10. $16 \times 5 = 8 \times 10$

True

False

How do you know? _____

Equations with + − × ÷

Do both sides have the same value? Find out, then write the sign.

Write = or ≠ in each circle. Write the value of each side.

Example

$$4 \times 15 \quad \bigcirc \quad 6 \times 10$$

60 60

$$1. \quad 9 \times 8 \quad \bigcirc \quad 70 + 3$$

$$2. \quad 350 + 250 \quad \bigcirc \quad 900 - 300$$

$$3. \quad 11 \times 6 \quad \bigcirc \quad 60 + 6$$

$$4. \quad 45 \div 5 \quad \bigcirc \quad 2 \times 5$$

$$5. \quad 84 \div 7 \quad \bigcirc \quad 3 \times 4$$

$$6. \quad 1,000 - 1 \quad \bigcirc \quad 990 + 9$$

$$7. \quad 20 \times 40 \quad \bigcirc \quad 90 \times 9$$

$$8. \quad 400 - 125 \quad \bigcirc \quad 300 - 25$$

$$9. \quad 120 \div 4 \quad \bigcirc \quad 160 \div 5$$

Write an expression with the same value. Use the sign shown.

Example

$$6 \times 4 = \underline{48} \quad \div \quad \underline{2}$$

$$10. \quad 9 \times 9 = \underline{\quad} \quad + \quad \underline{\quad}$$

$$11. \quad 500 - 140 = \underline{\quad} \quad \times \quad \underline{\quad}$$

$$12. \quad 72 \div 9 = \underline{\quad} \quad - \quad \underline{\quad}$$

$$13. \quad 250 + 250 = \underline{\quad} \quad \times \quad \underline{\quad}$$

$$14. \quad 12 \times 12 = \underline{\quad} \quad - \quad \underline{\quad}$$

$$15. \quad 150 \div 5 = \underline{\quad} \quad + \quad \underline{\quad}$$

$$16. \quad 175 + 25 = \underline{\quad} \quad \div \quad \underline{\quad}$$

Equations with + − × ÷

Find the missing number that makes each equation true.

Example

$$7 + 5 = 9 + \boxed{3}$$

Both sides are 12

First find the side with no box: $7 + 5 = 12$.

What goes with 9 to make 12? $9 + 3 = 12$.

So the missing number is 3.

Write the missing number. Then write the value of both sides.

1. $6 \times \boxed{} = 3 \times 12$

Both sides are _____

2. $25 \times 4 = \boxed{} \times 10$

Both sides are _____

3. $140 \div \boxed{} = 60 \div 3$

Both sides are _____

4. $350 + 80 = \boxed{} + 100$

Both sides are _____

5. $\boxed{} - 45 = 200 + 15$

Both sides are _____

6. $8 \times 9 = 80 - \boxed{}$

Both sides are _____

7. $\boxed{} \div 5 = 4 \times 4$

Both sides are _____

8. $700 - \boxed{} = 450 + 150$

Both sides are _____

Circle every number that makes it true.

Example

$$6 \times \square > 40$$

5 6 **7** **8**

9. $45 + \square < 50 + 3$

6 7 8 9

10. $100 - \square > 4 \times 20$

15 20 25 30

11. $72 \div \square > 7$

6 8 9 12

Equations with + − × ÷

Find the number each letter stands for.

Find the value of each letter. Write a related equation you can use.

Example $n \times 8 = 96$ $n = \underline{12}$

Related: $96 \div 8 = n$

1. $250 \div k = 50$ $k = \underline{\hspace{2cm}}$

Related: $\underline{\hspace{2cm}}$

2. $1,000 - p = 640$ $p = \underline{\hspace{2cm}}$

Related: $\underline{\hspace{2cm}}$

3. $t + 385 = 600$ $t = \underline{\hspace{2cm}}$

Related: $\underline{\hspace{2cm}}$

4. $126 = 9 \times b$ $b = \underline{\hspace{2cm}}$

Related: $\underline{\hspace{2cm}}$

5. $m \div 6 = 45$ $m = \underline{\hspace{2cm}}$

Related: $\underline{\hspace{2cm}}$

6. $84 = r - 16$ $r = \underline{\hspace{2cm}}$

Related: $\underline{\hspace{2cm}}$

7. $360 \div d = 9$ $d = \underline{\hspace{2cm}}$

Related: $\underline{\hspace{2cm}}$

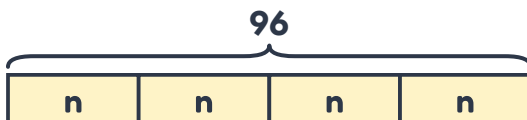
Match each bar model to its equation. Then find n.

Example



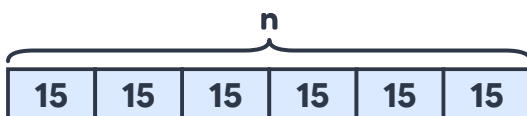
$n \div 6 = 15$ $n = \underline{\hspace{2cm}}$

8.



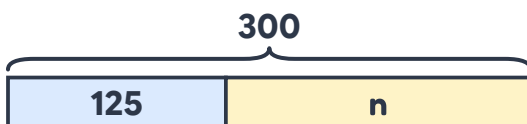
$n + 85 = 240$ $n = \underline{155}$

9.



$300 - n = 125$ $n = \underline{\hspace{2cm}}$

10.



$4 \times n = 96$ $n = \underline{\hspace{2cm}}$

Equations with + – × ÷

Who is right? Check the work. Then write equations for stories.

Who is right? Circle the name. Then tell why.

1. Is $250 + 150 = 500 - 100$ true?

Ava: False. One side adds, and the other side subtracts.

Ben: True. Both sides are 400.

Ava Ben Why? _____

2. Which sign goes in the circle? 7×12  $80 + 4$

Rosa: It is =, because $7 \times 12 = 84$.

Kai: It is $\neq$, because $7 \times 12 = 74$.

Rosa Kai Why? _____

3. What is the missing number? $28 + 47 = \square + 50$

Lily: It is 75, because $28 + 47 = 75$.

Sam: It is 25, because $25 + 50 = 75$.

Lily Sam Why? _____

4. What number is n ? $n \div 4 = 32$

Leo: $n = 128$, because $128 \div 4 = 32$.

Mia: $n = 8$, because $32 \div 4 = 8$.

Leo Mia Why? _____

Write an equation with a letter for each story. Then solve.

5. A theater has 8 equal rows of seats. There are 136 seats in all. How many seats are in each row?

Equation: _____

Answer: _____

6. A ribbon is cut into 5 equal pieces. Each piece is 34 inches long. How long was the ribbon?

Equation: _____

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$48 \div 6 = 2 \times 4$

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False

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True

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2. $12 \times 5 = 50 + 5$

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4. $90 \div 3 = 5 \times 6$

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5. $9 \times 12 = 100 + 18$

True

False

6. $640 + 60 = 800 - 200$

True

False

7. $96 \div 8 = 4 \times 3$

True

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8. $56 \div 4 = 7 \times 3$

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Circle True or False. Then tell how you know.

9. $6 \times 8 = 48 + 2$

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How do you know? _____

10. $16 \times 5 = 8 \times 10$

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How do you know? _____

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Do both sides have the same value? Find out, then write the sign.

Write = or ≠ in each circle. Write the value of each side.

Example

$$4 \times 15 \quad (=) \quad 6 \times 10$$

60 60

1. $9 \times 8 \quad \bigcirc \quad 70 + 3$

2. $350 + 250 \quad \bigcirc \quad 900 - 300$

3. $11 \times 6 \quad \bigcirc \quad 60 + 6$

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Write an expression with the same value. Use the sign shown.

Example

$$6 \times 4 = \underline{48} \div \underline{2}$$

10. $9 \times 9 = \underline{\quad} + \underline{\quad}$

11. $500 - 140 = \underline{\quad} \times \underline{\quad}$

12. $72 \div 9 = \underline{\quad} - \underline{\quad}$

13. $250 + 250 = \underline{\quad} \times \underline{\quad}$

14. $12 \times 12 = \underline{\quad} - \underline{\quad}$

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16. $175 + 25 = \underline{\quad} \div \underline{\quad}$

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Both sides are _____

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6. $8 \times 9 = 80 - \boxed{}$

Both sides are _____

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8. $700 - \boxed{} = 450 + 150$

Both sides are _____

Circle every number that makes it true.

Example

$$6 \times \square > 40$$

5 6 **7** **8**

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Example

$n \times 8 = 96 \quad n = \underline{12}$

Related: $96 \div 8 = n$

1. $250 \div k = 50 \quad k = \underline{\hspace{2cm}}$

Related: $\underline{\hspace{2cm}}$

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5. $m \div 6 = 45 \quad m = \underline{\hspace{2cm}}$

Related: $\underline{\hspace{2cm}}$

6. $84 = r - 16 \quad r = \underline{\hspace{2cm}}$

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7. $360 \div d = 9 \quad d = \underline{\hspace{2cm}}$

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Match each bar model to its equation. Then find n.

Example



$n \div 6 = 15 \quad n = \underline{\hspace{2cm}}$

8.



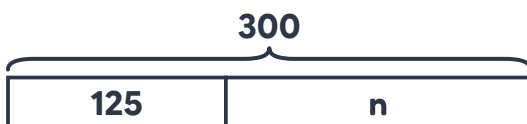
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$4 \times n = 96 \quad n = \underline{\hspace{2cm}}$

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1. Is $250 + 150 = 500 - 100$ true?

Ava: False. One side adds, and the other side subtracts.

Ben: True. Both sides are **400**.

Ava Ben Why? _____

2. Which sign goes in the circle? 7×12 $80 + 4$

Rosa: It is =, because $7 \times 12 = 84$.

Kai: It is $\neq$, because $7 \times 12 = 74$.

Rosa Kai Why? _____

3. What is the missing number? $28 + 47 = \square + 50$

Lily: It is **75**, because $28 + 47 = 75$.

Sam: It is **25**, because $25 + 50 = 75$.

Lily Sam Why? _____

4. What number is n ? $n \div 4 = 32$

Leo: $n = 128$, because $128 \div 4 = 32$.

Mia: $n = 8$, because $32 \div 4 = 8$.

Leo Mia Why? _____

Write an equation with a letter for each story. Then solve.

5. A theater has 8 equal rows of seats. There are 136 seats in all. How many seats are in each row?

Equation: _____

Answer: _____

6. A ribbon is cut into 5 equal pieces. Each piece is 34 inches long. How long was the ribbon?

Equation: _____

Answer: _____

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Is each equation true? Find the value of each side first.

Write the value of each side. Circle True or False.

Example

$$48 \div 6 = 2 \times 4$$

8

8

True

False

1. $300 + 45 = 400 - 55$

345

345

True

False

2. $12 \times 5 = 50 + 5$

60

55

True

False

3. $6 \times 9 = 60 - 6$

54

54

True

False

4. $90 \div 3 = 5 \times 6$

30

30

True

False

5. $9 \times 12 = 100 + 18$

108

118

True

False

6. $640 + 60 = 800 - 200$

700

600

True

False

7. $96 \div 8 = 4 \times 3$

12

12

True

False

8. $56 \div 4 = 7 \times 3$

14

21

True

False

Circle True or False. Then tell how you know.

9. $6 \times 8 = 48 + 2$

True

False

How do you know? False. $6 \times 8 = 48$ and $48 + 2 = 50$, so the sides are not equal.

10. $16 \times 5 = 8 \times 10$

True

False

How do you know? True. $16 \times 5 = 80$ and $8 \times 10 = 80$, so both sides are 80.

Equations with + − × ÷

Do both sides have the same value? Find out, then write the sign.

Write = or ≠ in each circle. Write the value of each side.

Example

$$4 \times 15 = 6 \times 10$$

60 60

$$1. \quad 9 \times 8 \neq 70 + 3$$

72 73

$$2. \quad 350 + 250 = 900 - 300$$

600 600

$$3. \quad 11 \times 6 = 60 + 6$$

66 66

$$4. \quad 45 \div 5 \neq 2 \times 5$$

9 10

$$5. \quad 84 \div 7 = 3 \times 4$$

12 12

$$6. \quad 1,000 - 1 = 990 + 9$$

999 999

$$7. \quad 20 \times 40 \neq 90 \times 9$$

800 810

$$8. \quad 400 - 125 = 300 - 25$$

275 275

$$9. \quad 120 \div 4 \neq 160 \div 5$$

30 32

Write an expression with the same value. Use the sign shown.

Example

$$6 \times 4 = \underline{48} \div \underline{2}$$

$$10. \quad 9 \times 9 = \underline{80} + \overset{\text{One way}}{\underline{1}}$$

$$11. \quad 500 - 140 = \underline{4} \times \overset{\text{One way}}{\underline{90}}$$

$$12. \quad 72 \div 9 = \underline{10} - \overset{\text{One way}}{\underline{2}}$$

$$13. \quad 250 + 250 = \underline{5} \times \overset{\text{One way}}{\underline{100}}$$

$$14. \quad 12 \times 12 = \underline{150} - \overset{\text{One way}}{\underline{6}}$$

$$15. \quad 150 \div 5 = \underline{20} + \overset{\text{One way}}{\underline{10}}$$

$$16. \quad 175 + 25 = \underline{400} \div \overset{\text{One way}}{\underline{2}}$$

Equations with + − × ÷

Find the missing number that makes each equation true.

Example

$$7 + 5 = 9 + \boxed{3}$$

Both sides are 12

First find the side with no box: $7 + 5 = 12$.

What goes with 9 to make 12? $9 + 3 = 12$.

So the missing number is 3.

Write the missing number. Then write the value of both sides.

1. $6 \times \boxed{6} = 3 \times 12$

Both sides are 36

2. $25 \times 4 = \boxed{10} \times 10$

Both sides are 100

3. $140 \div \boxed{7} = 60 \div 3$

Both sides are 20

4. $350 + 80 = \boxed{330} + 100$

Both sides are 430

5. $\boxed{260} - 45 = 200 + 15$

Both sides are 215

6. $8 \times 9 = 80 - \boxed{8}$

Both sides are 72

7. $\boxed{80} \div 5 = 4 \times 4$

Both sides are 16

8. $700 - \boxed{100} = 450 + 150$

Both sides are 600

Circle every number that makes it true.

Example

$$6 \times \square > 40$$

5 6 7 8

9. $45 + \square < 50 + 3$

6 7 8 9

10. $100 - \square > 4 \times 20$

15 20 25 30

11. $72 \div \square > 7$

6 8 9 12

Equations with + − × ÷

Find the number each letter stands for.

Find the value of each letter. Write a related equation you can use.

Example

$$n \times 8 = 96 \quad n = \underline{12}$$

Related: $96 \div 8 = n$

$$1. \quad 250 \div k = 50 \quad k = \underline{5}$$

Related: $250 \div 50 = k$ one way

$$2. \quad 1,000 - p = 640 \quad p = \underline{360}$$

Related: $1,000 - 640 = p$ one way

$$3. \quad t + 385 = 600 \quad t = \underline{215}$$

Related: $600 - 385 = t$ one way

$$4. \quad 126 = 9 \times b \quad b = \underline{14}$$

Related: $126 \div 9 = b$ one way

$$5. \quad m \div 6 = 45 \quad m = \underline{270}$$

Related: $45 \times 6 = m$ one way

$$6. \quad 84 = r - 16 \quad r = \underline{100}$$

Related: $84 + 16 = r$ one way

$$7. \quad 360 \div d = 9 \quad d = \underline{40}$$

Related: $360 \div 9 = d$ one way

Match each bar model to its equation. Then find n.

Example



$$n \div 6 = 15 \quad n = \underline{90}$$

8.



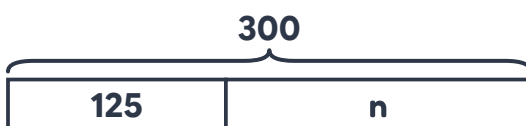
$$n + 85 = 240 \quad n = \underline{155}$$

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$$300 - n = 125 \quad n = \underline{175}$$

10.



$$4 \times n = 96 \quad n = \underline{24}$$

Equations with $+$ $-$ $\times$ $\div$

Who is right? Check the work. Then write equations for stories.

Who is right? Circle the name. Then tell why.

1. Is $250 + 150 = 500 - 100$ true?

Ava: False. One side adds, and the other side subtracts.

Ben: True. Both sides are 400.

Ava Ben Why? $250 + 150 = 400$ and $500 - 100 = 400$.

2. Which sign goes in the circle? 7×12 $80 + 4$

Rosa: It is $=$, because $7 \times 12 = 84$.

Kai: It is $\neq$, because $7 \times 12 = 74$.

Rosa Kai Why? $7 \times 12 = 84$ and $80 + 4 = 84$.

3. What is the missing number? $28 + 47 = \square + 50$

Lily: It is 75, because $28 + 47 = 75$.

Sam: It is 25, because $25 + 50 = 75$.

Lily Sam Why? $28 + 47 = 25 + 50$: both sides are 75.

4. What number is n ? $n \div 4 = 32$

Leo: $n = 128$, because $128 \div 4 = 32$.

Mia: $n = 8$, because $32 \div 4 = 8$.

Leo Mia Why? $128 \div 4 = 32$, so $n = 128$.

Write an equation with a letter for each story. Then solve.

5. A theater has 8 equal rows of seats. There are 136 seats in all. How many seats are in each row?

Equation: One way: $8 \times s = 136$

Answer: $s = 17$ seats

6. A ribbon is cut into 5 equal pieces. Each piece is 34 inches long. How long was the ribbon?

Equation: One way: $r \div 5 = 34$

Answer: $r = 170$ inches