

6th Grade
March 23, 2021

Today we will:

-Take class notes on
addition and
subtraction equations

-Begin HW

HOMEWORK:

Skills WS

ALEKS assignment: 60
min and 5 topics due next
Monday by 11:59pm



Inverse operations

"undo"
each other.

Use these to solve equations. The inverse operation of addition is Subtraction.

The Subtraction Property of Equality says two sides of an equation remain equal if you subtract the same number from each side.

Solving Addition and Subtraction Equations

Inverse operations

"undo"
each other.

Use these to solve equations. The inverse operation of subtraction is Addition.

The Addition Property of Equality says two sides of an equation remain equal if you add the same number ~~from~~ to each side.

Solve using inverse operations:

$$g + 16 = 45$$

$$g \begin{array}{r} \cancel{+16} \quad \cancel{-16} \\ = 29 \end{array}$$

$$x + 120 = 280$$

$$x \begin{array}{r} \downarrow \cancel{-120} \quad \downarrow \cancel{-120} \\ = 160 \end{array}$$

$$132 + x = 245.5$$

$$x \begin{array}{r} \cancel{-132} \quad \cancel{-132.0} \\ = 113.5 \end{array}$$

$$\frac{1}{8} + n = \frac{1}{2} \times \frac{4}{4} = \frac{4}{8}$$

$$n \begin{array}{r} \cancel{-\frac{1}{8}} \quad \cancel{-\frac{1}{8}} \quad \cancel{-\frac{1}{8}} \\ = \frac{3}{8} \end{array}$$

Word Problems

A board that measures 19.5 meters in length is cut into two pieces. One piece measure 7.2 meters. Write and solve an addition equation to find the length of the other piece.

After you withdraw \$50 from your savings account, the balance is \$124. Write and solve a subtraction equation to find your starting balance.

Solve using inverse operations:

$$a - 28 = 52$$

$$a \begin{array}{r} \cancel{+28} \quad \cancel{+28} \\ = 77 \end{array}$$

$$h - 14 = 49$$

$$h \begin{array}{r} \cancel{+14} \quad \cancel{+14} \\ = 63 \end{array}$$

$$x - 0.75 = 6.35$$

$$x \begin{array}{r} \downarrow \cancel{+0.75} \quad \downarrow \cancel{+0.75} \\ = 7.10 \end{array}$$

$$x - \frac{1}{12} = \frac{5}{12}$$

$$x \begin{array}{r} \cancel{+\frac{1}{12}} \quad \cancel{+\frac{1}{12}} \\ = \frac{6}{12} = \frac{1}{2} \end{array}$$



HOMEWORK



Name _____

Unit ____ Lesson _____ Due Date _____

Lesson 2 Skills Practice
Solve and Write Addition Equations

Solve each equation. You must **SHOW BALANCING** (do the same inverse operation on each side) for full credit.

1. $x + 4 = 7$

2. $t + 6 = 10$

3. $y + 13 = 27$

4. $z + 4 = 6$

5. $p + 2 = 8$

6. $b + 16 = 71$

7. $46 + a = 58$

8. $53 + r = 110$

9. $2 + h = 10$

10. $6 + y = 9$

- 11. PROJECT** Zahara spent 55 hours in 2 weeks working on a science project. She worked 32 hours the first week. Write and solve an addition equation to find the amount of time she spent working the second week.

Lesson 3 Skills Practice

Solve and Write Subtraction Equations

Solve each equation. You must **SHOW BALANCING** (do the same inverse operation on each side) for full credit.

1. $a - 1 = 7$

2. $b - 2 = 1$

3. $3 = c - 11$

4. $x - 32 = 15$

5. $3 = y - 4$

6. $232 = k - 114$

7. $m - 5 = 6$

8. $n - 73 = 68$

9. $15 = s - 18$

10. $t - 9 = 1$

11. ROCKETS During a test flight, Jeri's rocket reached a height of 18 yards. This was 7 yards less than the height of Devon's rocket. Write and solve a subtraction equation to find the height of Devon's rocket.