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ONE STEP

EQUATIONS

Name: _____ Class: _____

Solve for letter.

1) $x - 3 = 4$

2) $v - 10 = -9$

3) $-8 - p = -13$

4) $0 = 4 + q$

5) $t - (-5) = 9$

6) $k+1 = -27$

7) $22 = -11k$

8) $-40 = -5p$

9) $4x = 12$

10) $5g = 20$

11) $-54 = 9s$

12) $-8r = 64$

13) $\frac{x}{6} = 8$

14) $\frac{w}{-3} = 6$

15) $-7 = t/7$

16) $y \div 7 = 1$

17) $p/5 = 3$

18) $x \div (-2) = 8$

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COMBINE

LIKE TERMS

Name: _____ Class: _____

Combine things that are similar. Leave the rest alone.

1) $-3p + 6p$

2) $7x - x$

3) $-10v + 6v$

4) $30n + 8n$

5) $7p - 10p$

6) $-9r + 10r$

7) $9 + 5r - 9r$

8) $35n - 1 + 46$

9) $1 - 3v + 10$

10) $4b + 6 + 4$

11) $-4p - 1 + 6p$

12) $-14 + 2n + 4$

13) $b - 3 + 6 - 2b$

14) $-7k + 56 + 2k - 6$

15) $3 - 56 + 40n - (-n)$

16) $1 + 7 - 21b + (-4b)$

17) $4 - 20n - 15 + 10n$

18) $10x + 36 - 38x - 47$

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DISTRIBUTIVE

METHOD

Name: _____ Class: _____

DISTRIBUTE (MULTIPLY) NUMBER OUTSIDE PARENTHESIS TO THE TERMS INSIDE THE PARENTHESES. COMBINE LIKE TERMS IF POSSIBLE.

1) $6(1 - 5m)$

2) $3(4 + 3r)$

3) $4(8n + 2)$

4) $-6(7k+11)$

5) $-3(1 + 2v)$

6) $-2(3 - 7k)$

7) $-(1 - 5v)$

8) $-(6r + 8)$

9) $-(-2 - n)$

10) $-(7n + 1)$

11) $-(a - 5)$

12) $-(3x + 2)$

13) $-2(7 - n) + 4$

14) $-4p - (1 - 6p)$

15) $-7(k-8) + 2k$

16) $3 - 8(7 - 5n)$

17) $4 - 5(-4 + 3)$

18) $1 + 6(1 - 3b)$

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MULTI-STEP

EQUATIONS

Name: _____ Class: _____

Solve for letter.

1) $3w + 7 = 19$

2) $11 = 12 - q$

3) $10 = 7 - m$

4) $2g - 13 = 3$

5) $36 = 13n - 4n$

6) $8y + 3y = 44$

7) $12v + 10v + 14 = 80$

8) $6c - 8 - 2c = -16$

9) $4(z + 5) = 32$

10) $6 + 5(m + 1) = 26$

11) $5h + 2(11 - h) = -5$

12) $\frac{d-8}{-2} = 12$

13) $-2(4g - 3) = 30$

14) $27 = 3c - 3(6 - 2c)$

15) $-3 = 12y - 5(2y - 7)$

16) $-3(3 + x) + 4(x - 6) = -4$

17) $5(r + 9) - 2(1 - r) = 1$

18) $2(x + 3) + x = -9$

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EQUATIONS

WITH VARIABLES ON BOTH SIDES

Name: _____ Class: _____

Solve for the letter.

1) $15 - 2x = 3x$

2) $5p - 9 = 2p + 12$

3) $5t + 16 = 6 - 5t$

4) $-3r + 10 = 15r - 8$

5) $10(g + 5) = 2(g + 9)$

6) $-9(t - 2) = 4(t - 15)$

7) $7 + 3x - 12x = 3x + 1$

8) $w - 2 + 2w = 6 + 5w$

9) $10(g + 5) = 2(g + 9)$

10) $-9(t - 2) = 4(t - 15)$

11) $10(2y + 2) - y = 2(8y - 8)$

12) $2(4x + 2) = 4x - 12(x - 1)$

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EQUATIONS

WITH ABSOLUTE VALUE

Name: _____ Class: _____

Solve for the letter.

1) $|x - 4| = 6$

2) $|3x + 1| = -5$

3) $|3x + 9| - 10 = -4$

4) $|3x - 4| = |x|$

5) $|4x - 10| = 2|3x + 1|$

6) $|2x + 12| = 4x$

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LITERAL

EQUATIONS

Name: _____ Class: _____

1) Solve $d = rt$ for r

2) Solve $P = \frac{144p}{y}$ for p.

3) Solve $P = a + b + c$ for b

4) Solve $V = lwh$ for w

5) Solve $m = \frac{y_2 - y}{x_2 - x}$ for y

6) $T = m - n$ for n

7) Solve $d = \frac{C}{\pi}$ for π

8) Solve $F = \frac{lt}{d}$ for l

9) Solve $A = \frac{1}{2}bh$ for b

10) Solve $A = S(1 - DN)$ for N

11) Solve $V = \frac{1}{3}\pi h(3r^2 - h)$ for r^2

12) Solve $E = mc^2$ for c^2

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EQUATIONS

WITH FRACTIONS

Name: _____ Class: _____

Solve for the letter.

1) n − (4/7) = 3

2) (39/5) = 2m

3) (1/3) = n + (4/3)

4) (−26/33) = (13/11)x

5) 5 (1/2) + p = 6

6) m − 1 (1/2) = (−5/4)

7) x − (1/2) = 1 (1/4)

8) x − 1 (1/4) = −6

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EQUATIONS

WORD PROBLEMS LEVEL 1

Name: _____ Class: _____

Answer the question. Don't forget to include units!

1) At McDonalds, 4 friends decided to split the bill evenly. How much did each person pay if the total bill came to $56?

2) How many cookies can you buy with 24$ if each one cost 3$?

3) Last week Sophia ran 24 miles more than Anne. Sophia ran 56 miles. How many miles did Anne run?

4) Alice went to the Francesca's to buy new earrings. The earrings are 14.95$. If Alice gave the cashier a 20$ bill how much change is she supposed to get back?

5) Dom wants to buy all his friends ice cream after school. Dom has 4 friends with him. If each ice cream is $6 how much does Dom need to pay, if he also buys an ice cream for himself?

6) Angie made 50$ babysitting over the weekend but she lost some of it. Now she only has 35$. How much money did she lose?

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EQUATIONS

WORD PROBLEMS LEVEL 2

Name: _____ Class: _____

Answer the question. Don't forget to include units!

1) The sum of 4 consecutive integers is 67. What is the smallest of these numbers?

2) Maria bought a new box of pens for 7$ and she also got 4 new notebooks. She spent a total of 19$. How much did each notebook cost?

3) Elizabeth and 5 other students use their car to get to school. All the other students fill up 7 buses. If there is a total of 509 students, how many students can fit in one bus?

4) Jason gifted half of his dancing shoes and then bought twelve more. Now he has 90 shoes. How many dancing shoes did he start with?

5) Helene made some cakes for her bakery. Her assistant Margarita made 6 cakes for the bakery. Margarita cut each cake into 10 slices. There was a total 175 slices of cake for sale. How many slices did Helene make?

6) How old if Patrick, if 20 minus 5, times his age is 525?

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DSAT

EQUATION QUESTIONS

Name: _____ Class: _____

1) $3x - 1 = 5$
Solve for x.

2) $(3/4)x + (1/2) = 5$
Solve for x.

3) $(15-a)/2 = 5$
Solve for $(15-a)$.

4) $2 - 3x < 14$
Solve for x.

5) Find the solution set for $2x - 1 > 5x + 8$
a) $x < -3$
b) $x < -1$
c) $x > 1$
d) $x > 3$

6) What is the value of h,
if $(h+ 1) - (5h - 1) = 14$?

a) 3
b) 2
c) -2
d) -3

7) $5p - 5 = 15 - 5p$
Which of the following is the solution set to the equation shown above?

a) One solution, $p = -1$
b) One solution, $p=2$
c) Infinitely Many Solutions
d) No solutions

8) $5 + 3x < 3x - 2$

Which of the following best describes the solutions to the inequality shown above?

a) $x > (1/3)$
b) $x < (-1/3)$
c) All Real Numbers
d) No Solution