

Name: _____

Math 2 Test **Review** for Equations

Part 1 Solving Equations

1) $2(4x - 3) - 8 = 4 + 2x$

2) $3n - 5 = -8(6 + 5n)$

3) $-(1 + 7x) - 6(-7 - x) = 36$

4) $24x - 22 = -4(1 - 6x)$

5) $-5(1 - 5x) + 5(-8x - 2) = -4x - 8x$

Part 2 Fractional Equations

6) $\frac{x}{6} + \frac{2x}{3} = 5$

7) $\frac{x}{3} + \frac{x}{2} = 1$

8) $\frac{x}{2} - 4 = \frac{x}{3}$

9) $\frac{x}{8} = \frac{x}{12} + \frac{1}{3}$

Part 3 Absolute Value Equations

10) $\frac{|a - 5|}{8} = 5$

11) $4|n + 8| = 56$

12) $|7m| + 3 = 73$

13) $\left|\frac{x}{7}\right| - 8 = -7$

14) $-10|x + 2| = 70$

Part 4 Literal Equations

15) $kn + 4f = 9v$, for n

16) $\frac{x - c}{2} = d$, for x

17) $\frac{p + 9}{5} = q$, for p

Part 5 Applications

18) Find the value of x .

21) Find the value of x .

24) Find x .

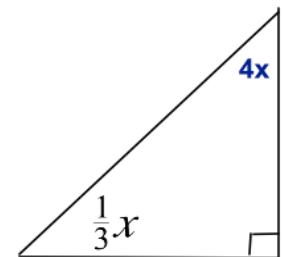
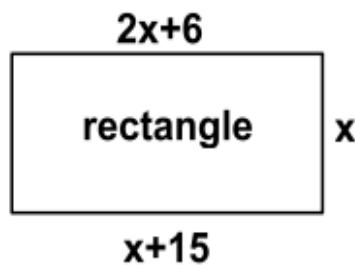
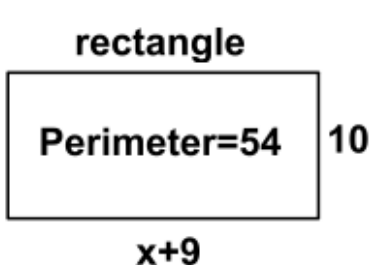
19) Find the missing length.

22) Find the length.

25) Find the 3 angles.

20) Find the area.

23) Perimeter = _____
Area = _____



Find 3 consecutive integers whose sum is equal to 366.

26) Write the equation.

27) Solve for x .

28) What are the 3 integers?

Find 3 consecutive **even** integers whose sum is equal to 18.

29) Write the equation.

30) Solve for x .

31) What are the 3 integers?

32) Sherry is 31 years younger than her dad. The sum of their ages is 61. How old is Sherry?

33) You are going to order some T-shirts and sun hats online for all the students in your class. Each T-shirt costs \$55, and each sun hat costs \$13. The total shipping fee is \$10. If your order came to a total of \$1,370, how many students are there in your class?

34) You had some cookies and milk for breakfast this morning. The total number of calories of your breakfast is 232. Each cookie has 25 calories and a bottle of milk has 57 calories. How many cookies did you have for breakfast?

35) Oren drove from his house to his aunt's house in Chapel Hill. He drove for 1 hour at 70 mph. When he realized he was speeding he slowed down to 55 mph. He drove the rest of the 510 mile trip at that speed. How long did he drive 55 mph?