

EQUATIONS REVIEW**ONE STEP EQUATIONS
SHOW ALL WORK**

- 1) What is happening to the variable?
- 2) What is the opposite of that?
- 3) Do the opposite to both sides of the equation.

Solve

1 $x + 19 = 53$ **2** $x - 4 = 32$ **3** $8 + x = 13$

4 $19x = 38$ **5** $96 = 4x$ **6** $\frac{x}{17} = 3$

7 $1.2x = 2.4$ **8** $96 = 3 + x$ **9** $2.2 = \frac{x}{4.5}$

TWO STEP EQUATIONS
SHOW ALL WORK

- 1) What two things are happening to the variable?
- 2) Do the add/subtract step first by doing the opposite to both sides.
- 3) Then do the mult/divide step by doing the opposite to both sides.

Solve.

10 $5x + 3 = 23$ **11** $14 = 2y - 4$ **12** $8 - x = 14$

13 $2 + \frac{x}{3} = 12$ **14** $3 = \frac{y}{5} - 2$ **15** $\frac{w}{10} + 2 = 5$

16 $3m + 2 = 14$ **17** $\frac{x}{2} - 4 = 3$ **18** $-2 + 1.5m = 10$

CROSS MULTIPLY

- 1) Make a cross.
- 2) Multiply the pair, divide the spare.

Solve by using cross multiply (round to the nearest tenth, if necessary)

19 $\frac{2}{7} = \frac{6}{x}$

20 $\frac{14}{x} = \frac{7}{3}$

21 $\frac{x}{5} = \frac{12}{20}$

MULTI- STEP EQUATIONS SHOW ALL WORK

- 1) Expand any brackets (distributive property).
- 2) Collect like terms on each side.
- 3) Get the variable to only one side
- 4) What two things are happening to the variable?
- 5) Do the add/subtract step first by doing the opposite to both sides.
- 6) Then do the mult/divide step by doing the opposite to both sides.

25 $3x + 5 = 5x - 7$

26 $-x + 4 = -4x - 8$

27 $-4(x - 5) = x + 6 - 4x$

28 $-(2x + 3) = 5(3 - x)$

$$29 \quad 3(x - 2) + 4x = -2(x - 6)$$

$$30 \quad 12 = \frac{3x}{2}$$

$$31 \quad \frac{-7x}{2} + 18 = 4$$

$$32 \quad 2p^2 + 5 = 37$$

$$33 \quad 17 = 5 + 3(x - 1)$$