

## Prefinal Algebra Part 5

Name:

Date:

### Section: Level 1

1. Solve for the following variables showing all steps. ( 1 mark each, total 4 marks)

a)  $64 = 8d$

b)  $-44 = \frac{x}{4}$

c)  $\frac{x}{7} = -16$

d)  $6y = -72$

2. Multiple Choice: Circle the letter that corresponds with the best answer.  
( 1 mark each, total 3 marks).

i) To solve the equation  $4x - 9 = 19$  we would **first** have to...

- a) Subtract 9 from both sides.
- b) Add 9 to both sides.
- c) Divide both sides by 4.
- d) Multiply both sides by 4.

ii) To solve the equation  $4 + 9x = -32$  we would **first** have to...

- a) Subtract 4 from both sides.
- b) Add 4 to both sides.
- c) Divide both sides by 9.
- d) Multiply both sides by 9.

iii) To solve the equation  $\frac{x}{3.2} - 7.3 = 12.5$ , the **second** step would be to...

- a) Add 7.3 to both sides.
- b) Subtract 7.3 to both sides.
- c) Multiply both sides by 3.2.
- d) Divide both sides by 3.2.

3. Complete the following checks to **show** whether  $x = -15$  is **the solution** or not to each equation. ( 1 mark each, total 4 marks)

a)  $6x = -105$

b)  $1 = \frac{x}{-15}$

c)  $\frac{x}{-3} = -5$

d)  $90 = -6x$

4. Solve for the following variables, showing all steps.( 1 mark each, total 8 marks)

a)  $3x - 2 = 7$

b)  $-12 = 5x + -2$

c)  $4x + 1 = -3$

d)  $12 = 5x + 2$

e)  $23 = 5t + 3$

f)  $3w + 20 = -7$

5. Solve the following variables, showing all steps.( 2 marks each, total 6 marks)

a)  $-3 = \frac{n}{7} - 7$

b)  $-4 + \frac{x}{11} = -1$

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

# Algebra 7 Test

Name:

Date:

## Section : Level 2

6. Solve the following variables, showing all steps.( 2 marks each, total 8 marks)

a)  $3.95 - 1.3x = 12.8$

b)  $- 7.2 = - 8.1 + 4.2 x$

c)  $- 3.8x - \frac{3}{4} = 9.25$

d)  $\frac{1}{2} x - 1 = 11$

7. Complete the following problems and show all work.( Total 15 marks)

a) Alexa is 6 years older than twice Anna's age.

i) Write an equation to represent this situation.( 1 mark)

ii) If Alexa is 12, what is the age of Anna?( 2 marks)

b) During a school fundraiser, grade 9 raised triple the amount of money that grade 8 and 7 raised together. Grade 9 brought in \$1095. Grade 8 brought in \$165.

i) Write an equation to represent this situation.( 1 mark)

ii) What is the total amount of money raised by Grade 7?( 2 marks)

c) After the poker game was finished, Bob had 4 more than 7 times the number of chips that Jim had. Bob had 67 chips when the game finished.

i) Write an equation to represent this situation. ( 1 mark)

ii) How many chips did Jim have when the game was finished?( 2 marks)

d) The Kelowna Rockets won 30 games. This is 6 less than  $\frac{1}{3}$  of the number of games the Kamloops Blazers won.

i) Write an equation to represent this situation.( 1 mark)

ii) How many games did the Kamloops Blazers win?( 2 marks)-



e) Budget car rentals rents Ferrari's for a flat rate of \$250 plus \$95 per day.

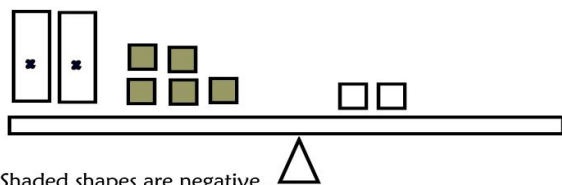
i) Write an equation to represent this situation.( 1 mark)

ii) If you rented the car for 11 days, how much will this cost in total?( 1 mark)

iii) If someone had to pay Budget \$2,245, how many days was the Ferrari rented?( 1 mark)



f) i) What equation do the following shapes represent?( 1 mark)



Shaded shapes are negative,  
unshaded are positive.

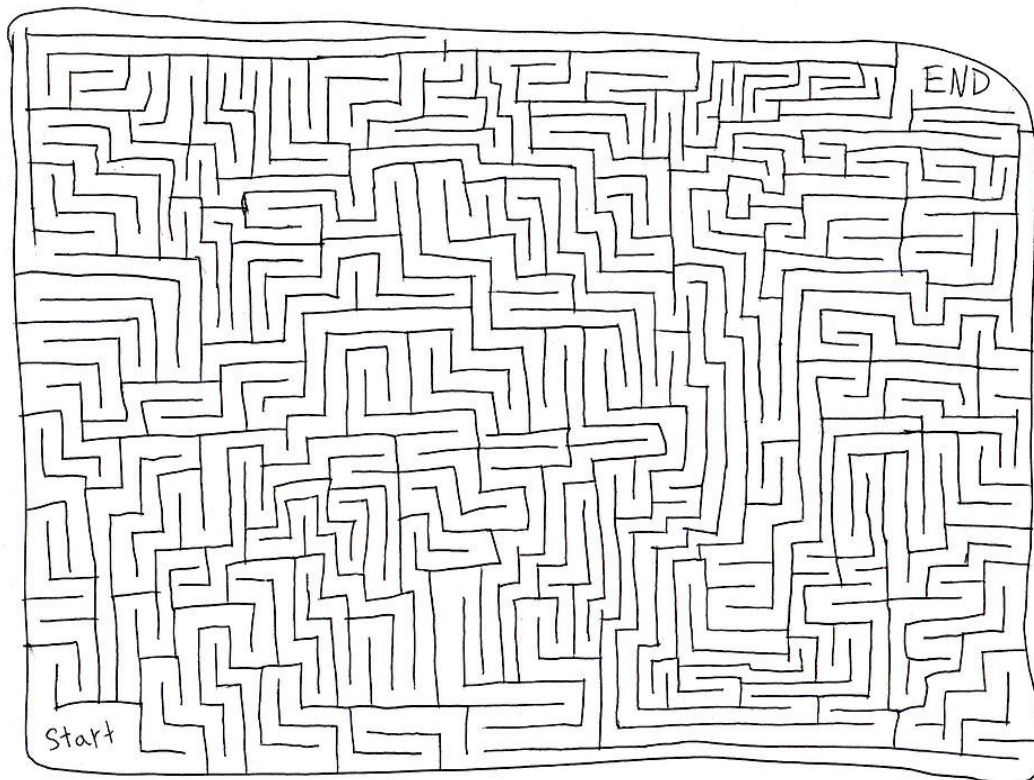
ii) Solve the equation.( 1 mark)

**End of Test:** Carefully check and make sure that you have made no errors, all work is shown and correct. If completely done, quietly read please or quietly complete incomplete work.

Bonus 1A: What is the formula for converting ° F (Fahrenheit) to ° C (Celcius)? ( 1 mark)

Bonus 2A: Solve for X ( 1 mark)

$$5(x - 3) + 4(x + 2^3) = 21$$



AUGH!! A SNOW SNAKE'S GOT ME!



HORRIBLE INNER TEETH ON ITS SEPARATELY MOVING UPPER JAW BONES ARE PULLING ME DOWN ITS FRIGID GULLET! RUN FOR YOUR LIFE!



AT LEAST I *HAVE* A LIFE...UNLIKE SOME WEIRDOS I KNOW.



I SUPPOSE IF I HAD TWO X CHROMOSOMES, I'D FEEL HOSTILE TOO.



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