

# Review Math

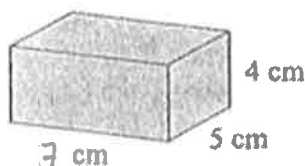
Name: \_\_\_\_\_

Div.: \_\_\_\_\_

Date: \_\_\_\_\_

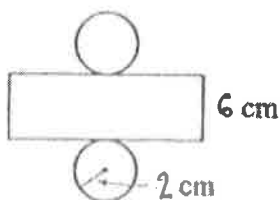
<b>Volume</b> = Area of Base x height	<b>Surface Area</b> = Sum of the Area of each face
<b>Area Formulas</b>	
Square = length x width	Triangle = base x height ÷ 2
Rectangle = length x width	Trapezoid = [(Base + Top) x Height] ÷ 2
<b>Circle Formulas</b>	
Area = $\pi r^2$	Circumference = $\pi 2r$ or $\pi d$

1) Find the surface area and volume of the following shapes:



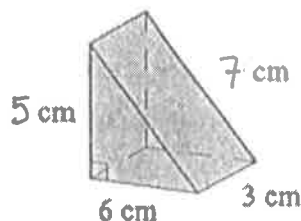
Surface Area: \_\_\_\_\_

Volume: \_\_\_\_\_



Surface Area: \_\_\_\_\_

Volume: \_\_\_\_\_



Surface Area: \_\_\_\_\_

Volume: \_\_\_\_\_

Solve using the given information:

- 2) The basement of a 20m by 19m house has a cement foundation poured to a thickness of 8cm. If the cement costs \$68 per square meter, how much will the cement cost?

- 3) How much wall area will be covered in 6 revolutions of a paint roller that is 8cm wide and has a circumference of  $3\pi$ ?

Show all work!

Add.

4)  $\frac{2}{5} + \frac{1}{5} =$

5)  $\frac{4}{5} + \frac{2}{3} =$

6)  $1\frac{1}{2} + 1\frac{3}{4} =$

7)  $\frac{8}{3} + 1\frac{1}{2} =$

Subtract.

8)  $\frac{4}{5} - \frac{2}{5} =$

9)  $1\frac{1}{2} - \frac{3}{4} =$

10)  $\frac{7}{3} - \frac{2}{3} =$

11)  $\frac{4}{5} - \frac{2}{3} =$

12)  $1\frac{1}{3} - \frac{2}{3} =$

13)  $12 - 1\frac{8}{11} =$

$$14) 3 \times \frac{1}{8} =$$

$$15) \frac{4}{3} \div 2 =$$

$$16) \frac{3}{7} \times \frac{1}{6} =$$

$$17) \frac{7}{8} \div \frac{4}{5} =$$

$$18) 1 \frac{1}{3} \times 1 \frac{1}{2} =$$

$$19) 1 \frac{1}{5} \times 1 \frac{1}{2} =$$

$$20) 1 \frac{2}{3} \div 2 \frac{5}{6} =$$

$$21) 4 \frac{1}{2} \div 1 \frac{1}{4} =$$

22) Fill in the following table (fraction in lowest terms):

Fraction	Decimal	Percent
	0.2	
		0.35%
$\frac{3}{5}$		
		325%
	0.0005	
$\frac{6}{5}$		
	2.05	
$\frac{3}{8}$		

23) Find the number:

a. 30% of 70

c. 50% of 94

b. 120% of 5

d. 105% of 20

24) A watch is on sale for \$120, which is 30% off its regular price. What does the watch regularly cost?

25) A camera normally costs \$29.75, but is put on sale for 30% off.

e. How much money are you saving?

f. What is the Sale Price?

g. What is the final price with 12% tax?

Solve for  $x$  (show your work).

26)  $6 : x = 21 : 7$

27)  $x : 15 = 10 : 25$

Find the Unit Rate (Show your work)

28) 650mL of juice shared among 5 people

29) \$32 for 25 cups

Solve (show work where necessary):

30)  $(+6) - (-8) =$

31)  $(-4) - (+3) =$

32)  $(-3) - (-5) + (-4) =$

33)  $(+12) - (-4) - (+7) =$

34)  $7 - 5 + 4 - 5 =$

35)  $-7 - 5 + 4 + 5 =$

Find the Product/ Quotient (Show work where necessary):

36)  $(-7)(-3)(-2) =$

37)  $(+3)(+2)(-6) =$

38)  $(-6) \div (+2) =$

39)  $(-12) \div (-4) =$

Solve (Show all Work):

40) A map shows that Victoria is 5cm from Nanaimo. If the scale is 1: 4000000 how far is it from Victoria to Nanaimo in km?

41) Which is the better deal? \$4.20 for 15 cans of Pepsi, or \$3.35 for 12 cans?

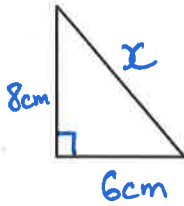
Prime Factor and determine if it is a perfect square:

42)  $\sqrt{324}$

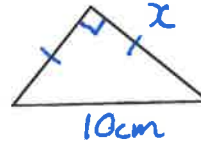
43)  $\sqrt{225}$

Find  $x$

44)



45)



Write out the following in equation form:

46) Three less than two times a number is ten.

\_\_\_\_\_

47) Six more than a number divided by three is twelve.

\_\_\_\_\_

Evaluate (Show your work).

48)  $2x = 5x - 6$

49)  $4x - 8 = 2x$

50)  $\frac{x}{2} - 5 = 3$

51)  $-\frac{x}{3} + 5 = -1$

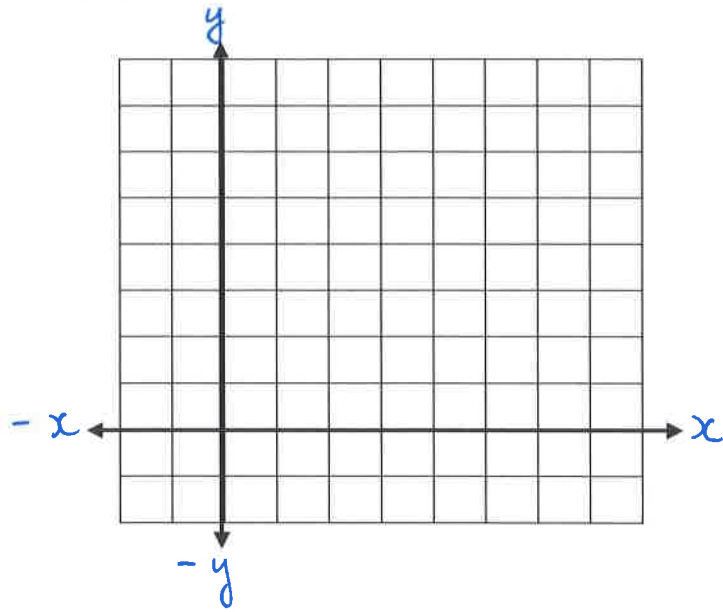
52)  $2x + 5 = 13$

53)  $(x + 3) \div 2 = 9$

54) Fill in the following table of values and graph the line.

$$y = \frac{x}{2} + 2$$

$x$	$y$



55) Fill in the following table of values and graph the line.

$$y = 2x - 1$$

$x$	$y$

