

Math 8 Review

Name : _____

In math we always have final exams that show what you have learned throughout the year. This is a unique year so no final exams, but I still need you to show me you have learned this year.

In each chapter of math 8 we start with a brief review, then we add the new skills needed to fully understand the chapter and finally we ask the questions we really need you to be able to solve.

Please use your notes or your book but try to do it on your own.

Please show all work, each question is out of 3 marks.

0 – Nothing Given

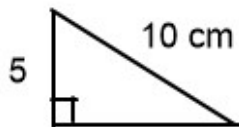
2 – Good Understanding

1 – Some idea (or just answers)

3 – Fully Mastery of Concept

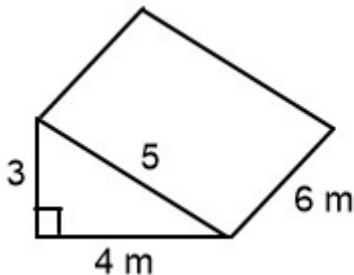
Questions (Number refers to the chapter) / 40 Marks

1) Pythagoras :



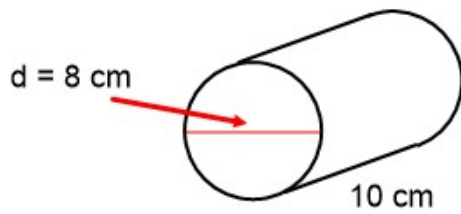
Find the missing side length to 2 decimal places.

2) Surface Area :



This is a large building that you have to paint. We do not paint the bottom of the building, but I need to paint all the other sides.

3) Volume :



Volume = Base Area x _____
=

4) Fractions : Solve each question

a) $12\frac{1}{2} + 9\frac{3}{4} =$

b) $112\frac{1}{2} - 9\frac{3}{4} =$

c) $3\frac{1}{8} \times \frac{4}{5} =$

d) $11\frac{1}{4} \times 1\frac{1}{2} =$

5) Algebra : Solve show steps

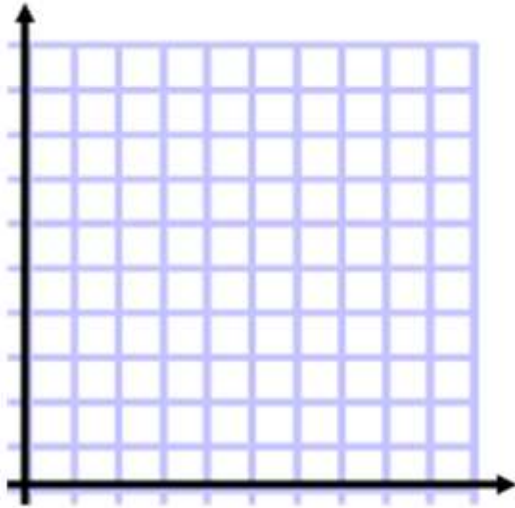
a) $2 - m = (-3)$

b) $2(1 + p) = (-4)$

6) Linear Relations : Complete the T – table and a graph

You are getting a new cell phone, they charge \$ 10 per month and 20 cents per minute.

# minutes	0	1	2	3	5	10	20
Cost							



Explain any patterns you see.

Explain where the y intercept is?

What is the equation for this graph?

How much does it cost to make 120 minutes of calls in a month?

How many minutes of calls can I make for \$ 20 in one month?

7) Ratios :

Best Buys : which should you choose? Use math to prove

You can buy 350 grams for \$ 4 . 29 or
 1 kilogram for \$ 11 . 98

8) You buy a new shirt that is \$ 39.95.

It is on sale for 20 % off, but you have to pay 12 % sales tax.

How much do you pay for the shirt in total?