

MasterMath

NAME _____

Date _____

Writing and Solving Proportions

Write a proportion and solve these problems

1. There are 50 questions on the test and you need to get an 80%. How many of the 50 questions do you need to get correct?

proportion		your answer
50	x	
100	80	40

2.

You had 15 at bats, and your batting average is .500. How many hits did you have?

proportion		your answer
x	15	
.500	1.000	7.5

3.

You had 16 at bats, and your batting average is .400. How many hits did you have?

proportion		your answer
x	16	
.400	1.000	6.4

4. A single batch of your mother's recipe for salsa calls for 3 tomatoes, 1/4 cup cilantro, 1/2 onion, and spices. Your having a party and need 5 batches of salsa. How many cups of onions do you need?

proportion		your answer
1/2	x	
1	5	2 1/2

5. There are 9 strawberries in a quart package. How many quart packages do you need if you want 62 strawberries?

proportion		your answer
9	62	
1	x	6.88

Solve these proportions using Cross Products

6.

proportion		your answer
9	18	
5	x	10

7.

proportion		your answer
z	6	
11	33	2

8.

proportion		your answer
25	6	
x	2	8.333

9.

proportion		your answer
150	y	
7.5	2	40

Solve these problems using Mental Math

10.

proportion		your answer
6	x	
2	4	12

11.

proportion		your answer
12	6	
4	z	2