



**NEW ENGLAND  
COMMON ASSESSMENT PROGRAM**

**Student Work Samples  
2009**

**Grade 7**



# Mathematics



11

$$\frac{1}{10} \rightarrow 0.11$$

$0.102 \leftarrow \text{answer}$

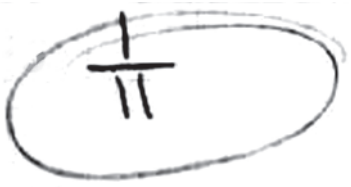


11

$$\frac{1}{100} \frac{10}{100} \text{ a } \frac{11}{100} \frac{110}{100} \quad \frac{10.5}{100}$$



11





11

$$a = 0.011$$

12

8 out of 100 or 2 out of 25

12

One in 12.5.

12

1 out of 5 chances

⑫ It is very unlikely Nemo will eat first.

13

18 ounces of red paint.

R, R, R, B, B

30

30 ÷ five cans of paint equals  
6 ounces per bucket times 3

13 You would need 18 ounces of red paint to make 30 oz. of purple paint because there is 3 red and 2 blue so red is  $\frac{3}{5}$  and that is equal to 60% and 60% of 30 is 18.

13 18 ounces of red paint.

Paints are 1 ounce each. 6 RRRBBB  
are needed to make 1 ounce of purple  
paint.

13



$\frac{3}{5}$  OF  
 $30 = 20$



13

you would need 10 ounces of red paint and 15 ounces of blue.

$$\begin{array}{r} 10 \\ 3 \overline{)30} \end{array}$$

$$\begin{array}{r} 15 \\ 2 \overline{)30} \end{array}$$

13

Ratio =  $\frac{3}{2}$

$$\begin{array}{r} 30 \\ x \quad 3 \\ \hline 90 \end{array}$$

$$\begin{array}{r} \frac{3}{2} = \frac{x}{30} \\ 45 \\ \hline 2 \overline{) 90} \end{array}$$

14

$$F = 25,000 + 1,500d$$

$$F = 25,000 + 1,500 \times 6$$

$$F = 25,000 + 9,000$$

$$F = 34,000$$

The fine is \$34,000  
because  $1,500 \times 6 = 9,000$   
and  $9,000 + 25,000 =$   
34,000.

14

$$F = 25,000 + 1,500d$$

$$\text{Fire} = \$34,000$$

$$\begin{array}{r} 25,000 \\ + 9,000 \\ \hline 34,000 \end{array}$$

$$\begin{array}{r} 1,500 \\ \times \quad 6 \\ \hline 9,000 \end{array}$$

14

115,000

$x$  1,500 = days to work  
 $b$  = days late

$\rightarrow$  25,000 = fine  
+ 9,000  
115,000.

14

I think it is 26,500. I added up 25,000 and 1,500. That's how I got my answer.

14

\$250 a day

$$250 \times 6 = 1500$$

A.) TRIANGLE JKL\* List A word: obtuse

This word describes the triangle because one of the angles in the triangle is more than  $90^\circ$  (obtuse) and the other two are less than  $90^\circ$  (acute)

\* List B word: isosceles

This word describes the triangle because two of the sides are equal and one is longer. That is what describes an isosceles triangle.

B.) Triangle PSQ\* List A word: right

This word describes the triangle because if it is part of the rectangle it has to have a right angle.

\* List B word: scalene

This word describes the triangle because all of the side lengths on the triangle are different.

15

List A  
a. obtuse - because the angle is greater than  $90^\circ$   
List B isosceles - because only two sides are even.  
b. List A. right - angle is  $90^\circ$   
List B. Scalene - because none of the sides are even

15

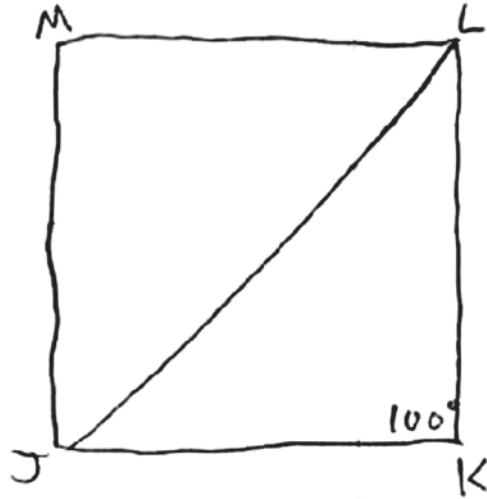
a. obtuse and scalene

JKL has an obtuse angle and it's scalene because no angles are the same.

b. right and isosceles

There would have to be a right angle and it have to be isosceles because it has 2 of the same angles.

15



$\triangle JKL$  = obtuse, isosceles

$\triangle JKL$  = right, scalene

15

a obtuse + scalene I chose because  
it is "obtuse" and scalene.

b right + scalene because it is right  
and scalene.

15

a. I think it is a obtuse and a scalene triangle

b. I would say it is probly a acute and a isosceles triangle