

ALEKS® Worksheet

Ruslan Trofimchuk - Worksheet #3 - 09/14/2011 7:26 PM
Middle School Math Course 3 (Jerry Trofimchuk)

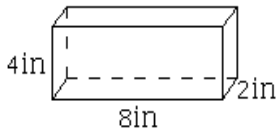
1. Write 0.212 as a fraction in simplest form.

	account	e-mail account
Computer access at home	80	20
No computer access at home	15	135

2. A gas station is 36 kilometers away. How far is the gas station in miles? Use the following conversion: 1 mile is 1.6 kilometers.

- (a) What percentage of the shoppers do *not* have an e-mail account?
- (b) What percentage of the shoppers do *not* have computer access at home?

3. Find the surface area of this rectangular prism. Be sure to include the correct unit in your answer.



6. Write $94\frac{7}{16}$ as a decimal.

7. Divide. Write your answer as a fraction or a mixed number in simplest form.

$$3\frac{4}{9} \div 7\frac{3}{4}$$

4. There are 75 students in a speech contest.

Yesterday, $\frac{1}{5}$ of them gave their speeches. Today,




$\frac{3}{5}$ of the remaining students gave their speeches.

How many students still haven't given their speeches?

8. Classify each figure as a line, ray, or line segment. Then, show how to write it.

5. In a survey, 250 shoppers were asked whether they have access to a computer at home and if they have a personal e-mail account. Their responses are summarized in the following table.

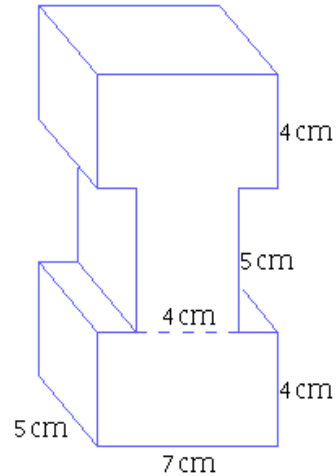
	E-Mail	No

Figure	Type	How to write it
	<input type="radio"/> line <input type="radio"/> ray <input type="radio"/> line segment	<input type="text"/>
	<input type="radio"/> line <input type="radio"/> ray <input type="radio"/> line segment	<input type="text"/>
	<input type="radio"/> line <input type="radio"/> ray <input type="radio"/> line segment	<input type="text"/>

11. A coral reef grows 0.19 m every week. How much does it grow in 5 weeks?

Write your answer in *millimeters*.

12. Find the volume of the solid below.



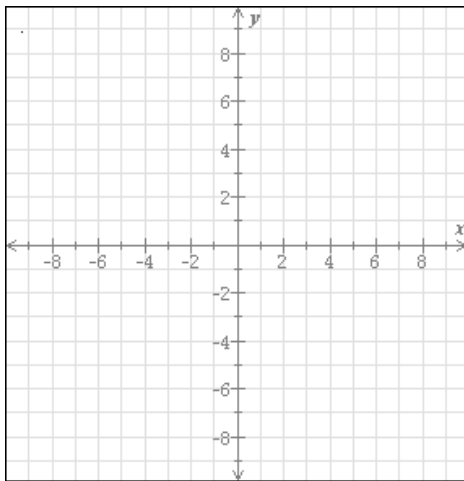
9. Add.

$$\frac{-9}{2} + \frac{7}{-5}$$

Write your answer as a fraction in simplest form.

10. Graph the line.

$$y = \frac{1}{2}x + 2$$



13. Write 28 as a product of prime factors.

14. A certain medicine is given in an amount proportional to a patient's body weight. Suppose a patient weighing 224 pounds requires 294 milligrams of medicine. What is the weight of a patient who requires 131.25 milligrams of medicine?

15. In the coordinate plane, the point $A(-3, 2)$ is translated to the point $A'(2, -3)$. Under the same translation, the points $B(-6, -1)$ and $C(0, 4)$ are translated to B' and C' , respectively. What are the

coordinates of B' and C' ?

16. The weight of 10,000 identical samples of a substance is 1 pound.

What is the weight of 1000 samples?