

Review Worksheet #17

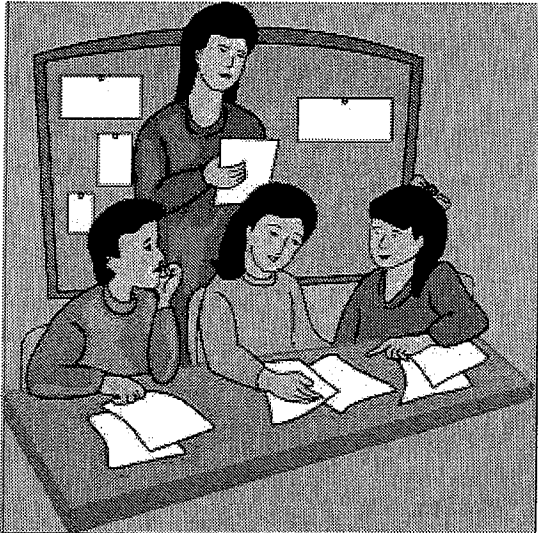
Section 1 - Multiple Choice

For questions 1-2

Ms. Chevrier's Math Class

Use the information below to answer the following question(s).

Ms. Chevrier's math class has 24 students in it. The students are collecting some facts about their class and then reporting these facts to practice their ratios.



1)

There are 16 girls in Ms. Chevrier's class. What is the ratio of girls to boys?

- (a) 2:1
- (b) 1:2
- (c) 2:3
- (d) 3:2

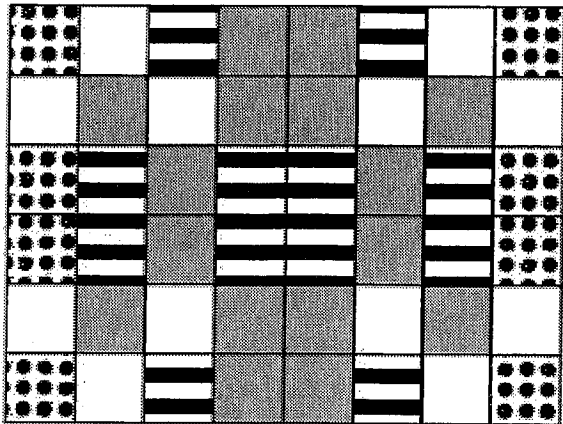
2)

If $\frac{5}{6}$ of the class walks to school, how many students in the class walk to school?

- (a) 5
- (b) 11
- (c) 20
- (d) 22

For question 3

Mrs. Knebl is going to have a baby. The students in her class decided to make a quilt for the new arrival.



Shaded  Dotted  Unshaded  Striped 

3)

If the students decided to double the size of the quilt and keep the colors proportional, how many squares would now be striped or dotted?

- (a) 16
- (b) 24
- (c) 40
- (d) 48

4) Mr. Solomon owns a sporting goods store. He noticed that for every 12 basketballs he sold, he sold 8 baseballs. At the end of March, Mr. Solomon found that he had sold 144 baseballs. How many basketballs did he sell?

- (a) 96
- (b) 144
- (c) 193
- (d) 216

5) There are 18 girls and 12 boys in a classroom. What is the ratio of boys to total students in the classroom?

- (a) 2:3
- (b) 2:5
- (c) 3:2
- (d) 3:5

6) Which one of these equations is a true proportion?

- (a) $\frac{3}{4} = \frac{8}{6}$
- (b) $\frac{3}{4} = \frac{6}{8}$
- (c) $\frac{2}{3} = \frac{12}{36}$
- (d) $\frac{1}{6} = \frac{4}{12}$

7) What is the correct proportion for solving the problem?

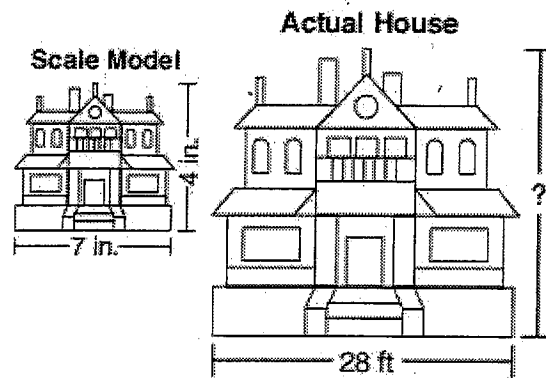
There are 20 television sets for every 12 students. How many television sets will there be for 16 students?

- (a) $\frac{20}{12} = \frac{16}{20}$
- (b) $\frac{20}{12} = \frac{x}{16}$
- (c) $\frac{x}{20} = \frac{12}{16}$
- (d) $\frac{16}{20} = \frac{12}{x}$

8) Mrs. Smith's class has 15 girls and 12 boys. The entire school has 300 girls and the same proportion of girls to boys as Mrs. Smith's class. How many boys does the entire school have?

- (a) 180
- (b) 240
- (c) 285
- (d) 375

9) Jeremy made a scale model of his house for a class project.



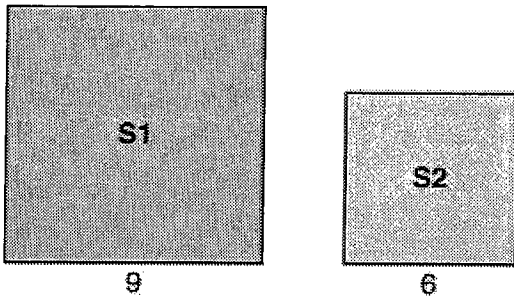
How tall is Jeremy's actual house?

- (a) 25 ft
- (b) 18 ft
- (c) 16 ft
- (d) 23 ft

10) During Safety Week, Gina and Ted made 18 posters in 2 hours. Working at that rate, how many posters can they expect to finish after 3 hours?

- (a) 36 posters
- (b) 27 posters
- (c) 24 posters
- (d) 21 posters

11) The two figures are squares. Find the ratio of the perimeter of square S1 to that of square S2.



- (a) $\frac{1}{3}$
- (b) $\frac{2}{3}$
- (c) $\frac{3}{2}$
- (d) $\frac{3}{1}$

12) Solve the following proportion.

$$\frac{8}{18} = \frac{28}{x}$$

$$x = ?$$

- (a) 38
- (b) 54
- (c) 63
- (d) 72

13) What is the ratio of a nickel to a dollar?

- (a) $\frac{5}{1}$
- (b) $\frac{1}{5}$
- (c) $\frac{1}{10}$
- (d) $\frac{1}{20}$

14) The Longhorn County School District's policy states that all schools should have a teacher to student ratio of 3:40. Which school does **NOT** have the correct teacher to student ratio?

School	Number of Teachers	Number of Students
Aldren Elementary	21	280
Clear Creek Elementary	30	400
Landry M.S.	33	444
Longhorn H.S.	63	840

- (a) Aldren Elementary
- (b) Clear Creek Elementary
- (c) Landry M. S.
- (d) Longhorn H. S.

15) The ratio of cans of orangeade mix to the number of cans of lemonade mix is 4 to 14. If there are 98 cans of lemonade, how many cans of orangeade are there?

- (a) 28
- (b) 34
- (c) 43
- (d) 82

16) Complete the proportion below.

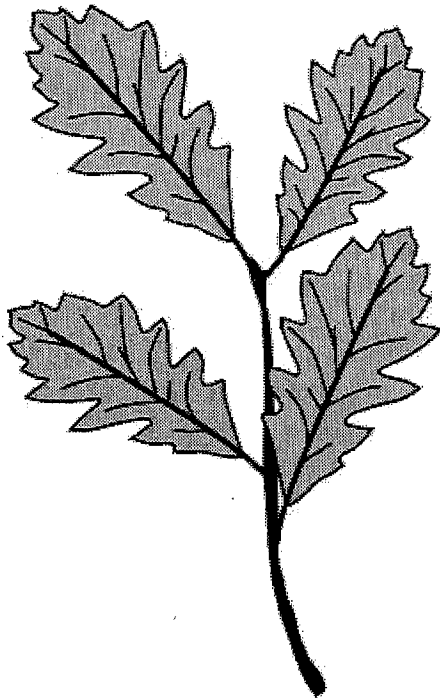
$$\frac{4}{7} = \frac{30}{x}$$

- (a) 7.5
- (b) 8
- (c) 49
- (d) 52.5

17) A baker made 6 pies for every 8 cakes. If she made 15 pies, use a proportion to find the number of cakes she made.

- (a) 20
- (b) 24
- (c) 32
- (d) 48

18) A farmer noticed that the height of a tree and the amount of leaves it produces are proportional. A 20-foot tree will produce 4 bushels of leaves. About how many bushels would be produced by a 50-foot tree?



- (a) 6 bushels
- (b) 8 bushels
- (c) 10 bushels
- (d) 12 bushels

19) The Bay City Aquarium feeds their penguins an average of 675 fish every 3 days. Which proportion could be solved to find x , the number of fish needed to feed all of the penguins for 21 days?

(a) $\frac{3}{675} = \frac{x}{21}$

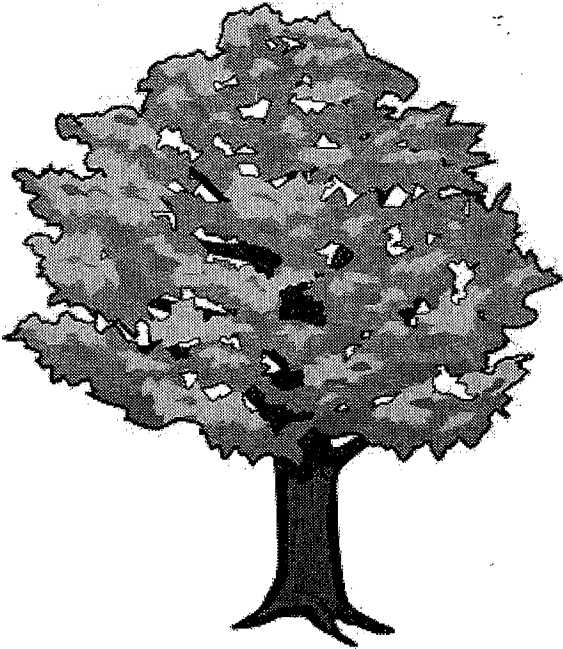
(b) $\frac{3}{675} = \frac{21}{x}$

(c) $\frac{21}{675} = \frac{x}{3}$

(d) $\frac{21}{675} = \frac{3}{x}$

20)

A farmer noticed that a particular type of tree produces a proportional amount of leaves to its height. A 27-foot tree will produce 15 bushels of leaves. How many bushels of leaves would a 45-foot tree produce?



- (a) 20 bushels
- (b) 25 bushels
- (c) 27 bushels
- (d) 35 bushels