

Review Worksheet #13

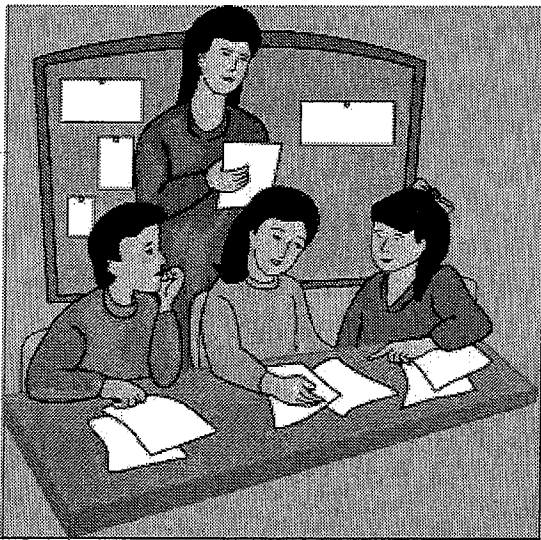
Section 1 - Multiple Choice

For question 1

Ms. Chevier's Math Class

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

Ms. Chevier'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)

Eighteen out of 24 students have brown eyes. What fraction represents this ratio?

- (a) $\frac{2}{3}$
- (b) $\frac{3}{4}$
- (c) $\frac{4}{5}$
- (d) $\frac{5}{6}$

2) 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) $\frac{1}{6} = \frac{4}{12}$

3) The ratio of girls to boys in Michele's class is 3 to 5. If the class has 12 girls, how many boys are in the class?

- (a) 7
- (b) 12
- (c) 20
- (d) 32

4) The ratio of boys to girls in a classroom is 2:3. If there are 18 girls in the class, how many boys are there?

- (a) 27
- (b) 18
- (c) 12
- (d) 6

5) Use a proportion to solve the following problem.

Ed completed 10 questions out of 50 for his social studies homework in 15 minutes. If he continues at the same pace, how many additional minutes will it take Ed to finish his social studies homework?

- (a) 50
- (b) 60
- (c) 70
- (d) 80

6) A computer graphic measures 3 inches wide by 9 inches high. If the graphic is kept in proportion and enlarged to 15 inches high, what would be the width of the new sized graphic?

- (a) 5 inches
- (b) 6 inches
- (c) 7 inches
- (d) 8 inches

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) $\frac{20}{12} = \frac{x}{16}$

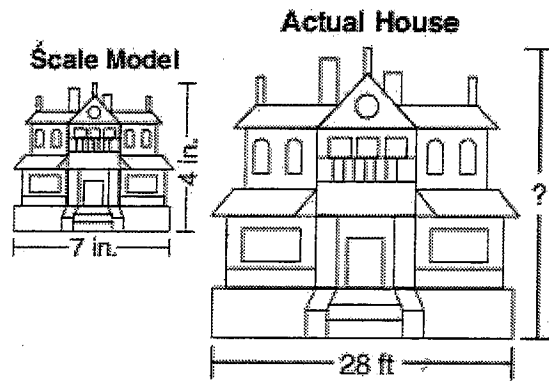
(c) $\frac{x}{20} = \frac{12}{16}$

(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

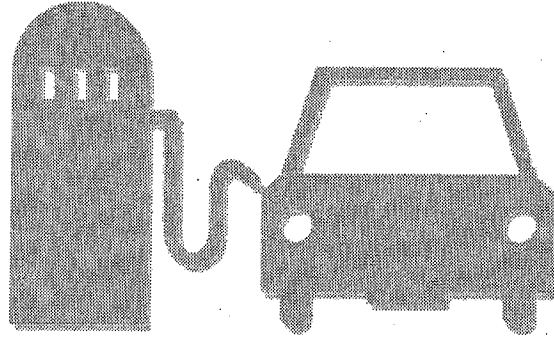
11) Solve the following proportion.

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

$$x = ?$$

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

12) Laticia's mom went to the gas station to put gas in the car. Her total bill was \$12.74 for 9.1 gallons. How much did each gallon of gas cost?



- (a) \$1.28
- (b) \$1.29
- (c) \$1.40
- (d) \$1.41

13) Solve.

$$7 - 2 \times 3$$

- (a) 1
- (b) 7
- (c) 11
- (d) 15

For question 14

The Callaghans are planning to have their neighbors over for dinner on Saturday evening. Mrs. Callaghan purchased $3\frac{3}{4}$ pounds of beef that are $\frac{9}{10}$ fat-free. They are also preparing sparkling lemonade as the beverage.

14)

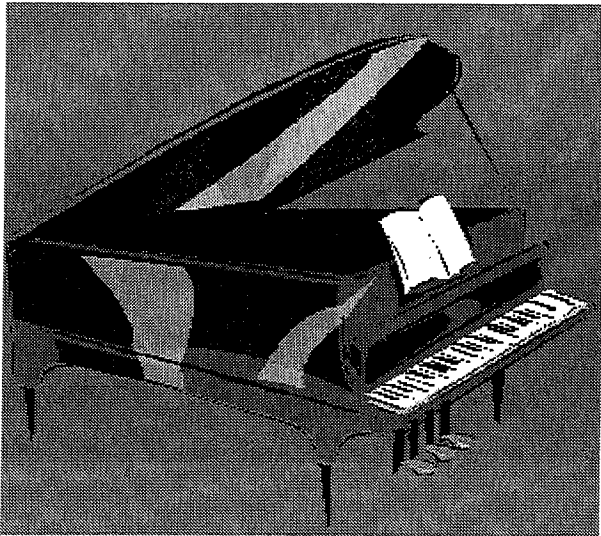
After the meal, Mrs. Callaghan realized that $\frac{1}{8}$ of the meat she purchased was eaten. How much total meat was left?

- (a) $\frac{6}{28}$ pounds
- (b) $\frac{105}{32}$ pounds
- (c) $1\frac{1}{2}$ pounds
- (d) $2\frac{7}{8}$ pounds

For question 15

Ms. Shally's piano lessons

Ms. Shally teaches piano lessons to high school students after school at 3:30 PM on Monday, Wednesday, and Friday. She currently has 12 students and each lesson lasts for 30 minutes.



15)

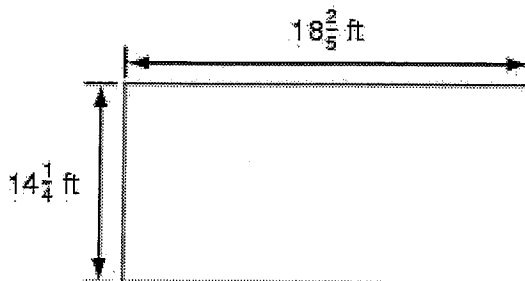
Another student, Thomas, must divide his practice time between the piano and the trombone. His devotion to music is evident since he spends a total of $1\frac{5}{8}$ hours each day

practicing both instruments. If he spends $\frac{2}{3}$ of his time on the piano, how many hours does Thomas spend practicing the trombone?

- (a) $\frac{13}{12}$
- (b) $\frac{13}{24}$
- (c) $\frac{23}{24}$
- (d) $\frac{26}{24}$

For question 16

Pocco is building a shed for his gardening tools. This new shed will give the perfect amount of space to store them. The floor plan is shown below.



16)

Pocco will place the door on 1 of the shorter sides of the shed. The door is $4\frac{3}{5}$ feet wide.

What will be the remaining length of the wall after the door is put into place?

- (a) $9\frac{3}{10}$ feet
- (b) $9\frac{13}{20}$ feet
- (c) $10\frac{2}{5}$ feet
- (d) $10\frac{1}{10}$ feet

For question 17

Jim has decided to subscribe to a cable TV service. He wants to work with Company ABC. The costs for the service are shown below. With a 2-year contract signed, the first six months' fees are free.

Equipment	Costs for Company ABC
Cable TV control unit	\$129.95
Monthly Fee	\$21.95
Shipping and Handling	\$19.95

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17)

Jim's friend, Letasha, said she spends \$167.40 per year on monthly cable fees. How much does she pay each month?

- (a) \$13.95
- (b) \$16.74
- (c) \$27.90
- (d) \$23.91

For questions 18-19

The Stratford family had a number of relatives who lived, worked and vacationed in the same area.

	Benson	Craig City	Fairbanks	Lotsville	Shareburg
Benson	-	48	115	240	75
Craig City	48	-	70	200	93
Fairbanks	115	70	-	15	265
Lotsville	240	200	15	-	140
Shareburg	75	93	265	140	-

18)

Tom planned a fishing trip to the lake. He averaged ~~40 mph~~ for the first 2 hours, and ~~55 mph~~ for the next 3 hours. How many miles did he travel?

- (a) 190
- (b) 200
- (c) 245
- (d) 275

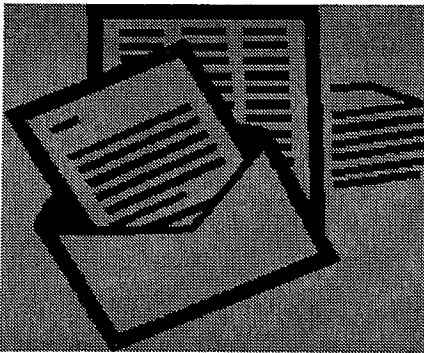
19)

On his vacation, Carl traveled the first 200 miles in 4 hours and the next 300 miles in 5 hours. What was his average miles per hour over the 9-hour trip?

- (a) 52.5 mph
- (b) 55.0 mph
- (c) 55.6 mph
- (d) 57.4 mph

For question 20

A group of student helpers stuffed envelopes together. Ally can stuff 10 envelopes a minute, Elizabeth can stuff 20 envelopes a minute, and Laura can stuff 15 envelopes a minute.



20)

Laura was planning on stuffing 825 envelopes. How long would it take her to do this?

- (a) 40 minutes
- (b) 55 minutes
- (c) 1 hour, 5 minutes
- (d) 1 hour, 55 minutes