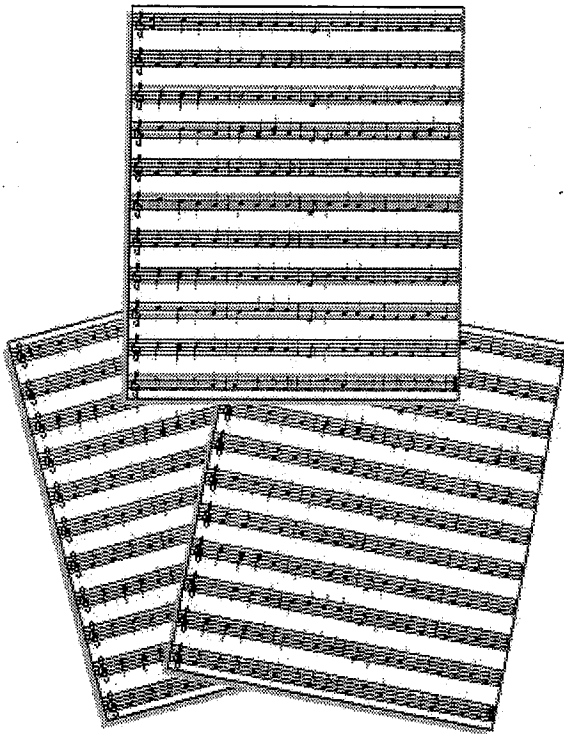NAME_____

Review Worksheet #14

Section 1 - Multiple Choice

For question 1

Keisha and Santo have decided to sign up for piano lessons. There are 2 options in town. Mike's Ivory Ticklers charges $124 to join and then there is a $36 monthly fee. Margaret's Musical Emporium charges $186 to join and there is an $18 monthly fee.

1)

Which expression can be used to determine the first year's costs for enrolling at Mike's Ivory Ticklers?
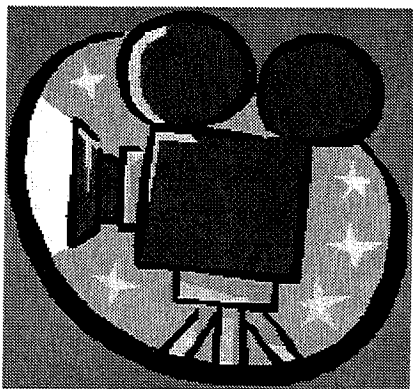
(a) $186 + 18 \times 12$

(b) $124 + 36 \times 12$

(c) $(124 + 36) \times 12$

(d) $(186 + 18) \times 12$

For question 2

Ivan's movie camera needs to be repaired. He calls a repair shop and they inform him that it will cost $45 for the repairman to come to his house and then $32 for each hour the repairman works on the camera.

2)

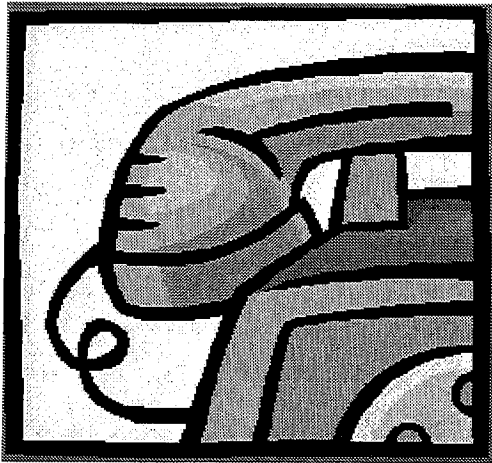Determine the cost of a repair that lasts 2 hours and 45 minutes.

(a) $109
(b) $133
(c) $141
(d) $212

For question 3

You need to make a collect call and must choose a long-distance phone carrier. You have two choices. Company A charges $1.38 for the first minute and $.64 for each additional minute. Company B charges $2.64 for the first minute and $.58 for each additional minute.

3)

Find the cost of a 6-minute phone call using company A.

(a) $5.22
(b) $4.58
(c) $3.94
(d) $3.30

For questions 4-5

A plumber charges a flat rate of $30 to go on a house call and $40 per hour for his work.

4)

How much would the plumber earn if he went on a house call and worked 4 hours?

(a) $70
(b) $160
(c) $190
(d) $280

5)

How much would the plumber earn if he went on a house call and worked 2 hours and 15 minutes?

(a) $110
(b) $120
(c) $130
(d) $140

6) Mary Ann has $4\frac{1}{2}$ hours in her schedule to go shopping. She found out that the mall will only be open for $\frac{1}{3}$ of that time. How much time will Mary Ann be able to shop?

(a) $1\frac{1}{2}$ hours

(b) $1\frac{1}{3}$ hours

(c) $1\frac{2}{3}$ hours

(d) $1\frac{3}{4}$ hours

7) Shelly is about to simplify an expression. The expression is $\frac{4}{3}\left(\frac{7}{2}x - 3\right)$. What is the correct simplification of Shelly's expression?

(a) $\frac{8}{3}x$

(b) $\frac{14}{3}x - 4$

(c) $\frac{21}{8}x - \frac{9}{4}$

(d) $\frac{28}{6}x - \frac{12}{3}$

8) The morning temperature reading was $10°$. If the temperature dropped $20°$ by mid-afternoon, what was the new temperature reading?

(a) $-10°$

(b) $-20°$

(c) $-30°$

(d) $30°$

9) Simplify the following:

$3(24 \div 4 - 2)$

(a) 12
(b) 24
(c) 36
(d) 48

10) Solve for a .

$$a = \frac{3}{4} + \frac{5}{8}$$

(a) $\frac{11}{8}$

(b) $\frac{13}{8}$

(c) $\frac{8}{4}$

(d) $\frac{11}{4}$

11) Solve.

$-23 - 8 = \underline{\quad}$

(a) -31

(b) -15

(c) $+15$

(d) $+31$

12) Solve.

$$1\frac{3}{4} \div \frac{2}{3}$$

(a) $\dfrac{8}{21}$

(b) $1\dfrac{2}{12}$

(c) $2\dfrac{1}{8}$

(d) $2\dfrac{5}{8}$

13) Your school band is planning to attend a competition. The total cost for the sixty band members to attend is $900. Each band member will pay $4.00 toward this cost. They will sell boxes of candy to raise the rest of the money. For each box of candy sold the band makes $3.00. How many boxes of candy will the band members need to sell?

(a) 180
(b) 220
(c) 300
(d) 380

14) If the average number of people who use the drive-up window is 23 per hour, how many people used the window in 7.5 hours?

(a) 3
(b) 30.5
(c) 172.5
(d) 355

15) Round $\dfrac{7}{40}$ to the nearest hundredth.

(a) 0.175
(b) 0.18
(c) 0.21
(d) 0.2

16) Mrs. Wilson bought a bag of licorice whips at the circus for her and her 4 children, and they ate all of the pieces in the bag. If the average amount of candy eaten by each of them was 7 pieces, how many pieces were in the bag?

(a) 11
(b) 24
(c) 28
(d) 35

17) What is the value of the following expression?

$$3 + 4^2 - 8 \times 2 + 4(1 + 2)$$

(a) 9
(b) 15
(c) 31
(d) 45

18) Bruce told his dad that he worked 15 hours at his weekend job and earned $72.00. How much did Bruce earn per hour?

(a) $4.40
(b) $4.60
(c) $4.80
(d) $5.00

19) Solve.

$$\frac{1}{2}(18 \div 2) + 2$$

(a) 10
(b) 12
(c) 18
(d) 20

20) If Sara correctly answered $\frac{3}{4}$ of the questions on her math test and there were a total of 60 questions on the test, how many questions did she *not* answer correctly?

(a) 5
(b) 11
(c) 15
(d) 22