

Employee: _____

Date: _____

Time limit: 30 minutes

Select the correct answer for the following problems:

1. Add $.375 + .125 + 1.25 + 0.875$
A) 1.500 B) 2.500 C) 2.625 D) 3.625

2. Subtract 3.875 from 7.235
A) 3.360 B) -3.360 C) 11.110 D) 5.632

3. Multiply .375 by 3
A) 11.25 B) 1.125 C) .1125 D) 125

4. Divide 7854 by 6
A) 1705 B) 2006 C) 1309 D) 3250

5. Add $\frac{1}{8} + \frac{1}{4} + \frac{1}{2} + \frac{3}{4}$
A) $1\frac{5}{8}$ B) $\frac{7}{8}$ C) $3\frac{1}{4}$ D) $1\frac{9}{16}$

6. Subtract $1\frac{3}{8}$ from $25\frac{7}{8}$
A) 24 B) 25 C) $24\frac{1}{2}$ D) $24\frac{3}{8}$

7. Multiply $22\frac{1}{2}$ by $2\frac{1}{2}$
A) $56\frac{1}{2}$ B) $44\frac{1}{2}$ C) $56\frac{1}{4}$ D) 45

8. Divide $4\frac{7}{8}$ by $\frac{1}{8}$

- A) 4 B) $4\frac{7}{8}$ C) 27 D) 39

9. Subtract $\frac{7}{8}$ from $3\frac{3}{8}$

- A) 4 B) $2\frac{1}{8}$ C) $2\frac{5}{8}$ D) $2\frac{1}{2}$

10. Convert the following fractions into decimals :

$$\frac{3}{8} =$$

$$\frac{7}{8} =$$

$$1\frac{1}{16} =$$

$$\frac{5}{8} =$$

11. Reduce fractions

$$\frac{8}{8} =$$

$$\frac{24}{64} =$$

$$\frac{5}{20} =$$

$$\frac{21}{24} =$$

12. In the number 5.96874:

The decimal place...

Contains the digit...

Hundredths

Ones

Tenths

Ten thousandths

For questions 13 through 15, calculate the high and low limits for the dimensions given, then determine if a part feature with the dimension shown would be considered acceptable or unacceptable. Assume that all the dimensions are in inches.

Dimension	Limits		Measured Value	Acceptable? (Yes or No)
	Low	High		
13. 2.000 +/- .003	_____	_____	2.023	_____
14. .50 +.00/-.05	_____	_____	.501	_____
15. 1.572 +/- .004	_____	_____	1.575	_____

16. The lunch special at the local deli is \$3.95. How can you find out how many lunch Specials you can buy for \$20.00 ?

- A) add \$3.95 and \$20.00 B) divide \$20.00 by \$3.95
 C) multiply \$20.00 by \$3.95 D) subtract \$3.95 from \$20.00

17. It is now 2:30 p.m. What time was it 3 hours and 5 minutes ago ?

- A) 11:25 a.m. B) 11:35 a.m. C) 5:35 p.m. D) 11:25 p.m.

18. A manufacturing company employs 120 employees. A total of 90 employees are involved in production. What percentage does this represent ?

- A) 50% B) 80% C) 75% D) 84.3%

19. A car salesman is offering to discount 5% from the sticker price of \$14,750. What is the dollar amount of the discount ?

- A) \$73.75 B) \$147.50 C) \$500.00 D) \$737.50

20. Last year, your friend made \$18,500 in salary. His employer has decided to increase his pay by \$1,000. What is the percentage increase in your friend's salary?

- A) 5.4% B) 10.0% C) 18.5% D) 1.0%

MATH TEST

Leed Himmel Ind.

CONVERT THESE FRACTIONS

$2/5 = \underline{\quad}$ $3/4 = \underline{\quad}$ $1/10 = \underline{\quad}$ $2/3 = \underline{\quad}$ $1/2 = \underline{\quad}$

$3/5 = \underline{\quad}$ $1/4 = \underline{\quad}$ $11/32 = \underline{\quad}$ $2/4 = \underline{\quad}$ $6/10 = \underline{\quad}$

$3/32 = \underline{\quad}$ $7/32 = \underline{\quad}$ $4/20 = \underline{\quad}$ $11/16 = \underline{\quad}$ $1/16 = \underline{\quad}$

$29/32 = \underline{\quad}$ $31/32 = \underline{\quad}$ $15/16 = \underline{\quad}$ $7/16 = \underline{\quad}$ $23/32 = \underline{\quad}$

IF YOU HAVE BRAKE SHAPES WITH A S/O OF

4-7/16"-----3 PCS

10-7/32"---4 PCS

25-25/32"—3 PCS

31-29/32"---2 PCS

17-5/16"-----3 PCS

37-31/32"-----3 PCS

ALL BRAKE SHAPES ARE 10' LONG.

HOW MANY SHEETS OF 4'X10' MATERIAL DO YOU NEED ___ ?

PLEASE ADD THESE FRACTION AND CONVERT TO DECIMALS.

$$2\frac{3}{16} + 5\frac{19}{32} + 9\frac{11}{32} =$$

$$3\frac{7}{32} + 1\frac{31}{32} + 4\frac{15}{32} =$$

$$8\frac{9}{16} + 4\frac{29}{32} + 3\frac{1}{32} =$$

$$7\frac{1}{2} + 8\frac{5}{32} + 15\frac{23}{32} =$$

$$3\frac{1}{2} + 4\frac{27}{32} + 1\frac{5}{32} =$$

$$4\frac{3}{4} + 5\frac{1}{16} + 4\frac{9}{32} =$$

$$15\frac{1}{2} + 3\frac{9}{16} + 7\frac{3}{32} =$$

$$1\frac{9}{32} + 2\frac{17}{32} + 4\frac{11}{32} =$$

$$7\frac{5}{8} + 3\frac{15}{32} + 8\frac{23}{32} =$$

$$4\frac{25}{32} + 2\frac{1}{4} + 5\frac{3}{32} =$$

$$3\frac{11}{16} + 1\frac{21}{32} + 2\frac{9}{32} =$$

$$2\frac{13}{16} + 4\frac{29}{32} + 3\frac{5}{32} =$$

$$4\frac{7}{16} + 5\frac{23}{32} + 4\frac{7}{32} =$$

$$3\frac{5}{16} + 8\frac{1}{8} + 7\frac{19}{32} =$$

Name _____

Date / /

1.
$$\begin{array}{r} 250 \\ 78 \\ +135 \\ \hline \end{array}$$

2.
$$\begin{array}{r} .125 \\ .093 \\ +.010 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 443 \\ -257 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 5.25 \\ \times 3.14 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 1/8 \\ 1/4 \\ +3/32 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 2 \frac{1}{4} \\ - \frac{3}{8} \\ \hline \end{array}$$

7. $612 \div 9 =$ _____

8. Change to a decimal: $3/4 =$ _____

9. 40% of 150 = _____

10. If $3x + 4x = 56$, then $x =$ _____

Using a ruler, please measure distances below to the nearest 16th of an inch.

11. A = 

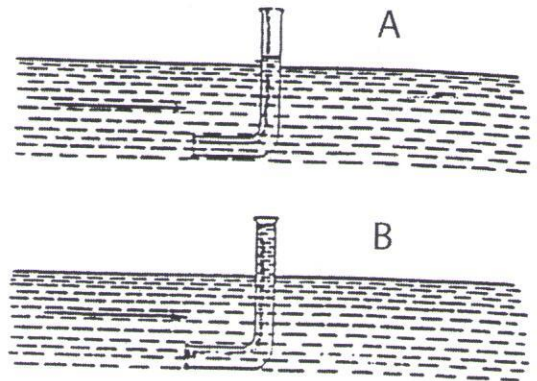
12. B = 

13. C = 

For the following questions, look at the picture to determine the answer and circle the correct letter.

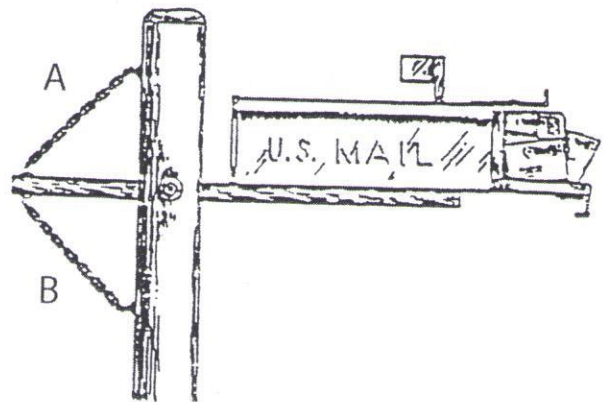
14. Which of these streams is flowing faster?
(if equal, circle C.)

- A.
- B.
- C.



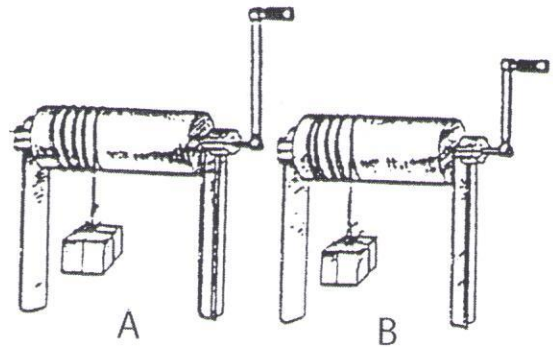
15. Which one piece of chain will hold up the mailbox shelf?
(if equal, circle C.)

- A.
- B.
- C.



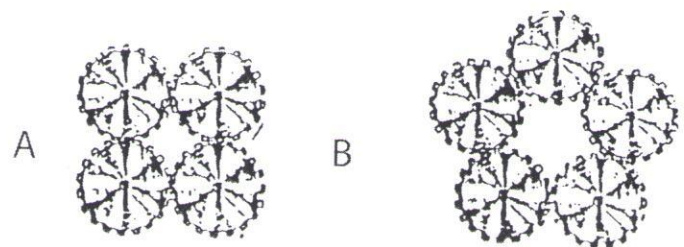
16. With which windlass can a man raise the heavier weight?
(if equal, circle C.)

- A.
- B.
- C.



17. Which set of gears will turn freely?
(if both, circle C.)

- A.
- B.
- C.



For the following questions, please circle the correct answer.

18. A man on a motorcycle rides 110 miles in 330 minutes. What is his average speed in miles per hour?
- A. 20
 - B. 25
 - C. 30
 - D. 35
 - E. 40
19. A work crew finishes the rough work on a house in 8 days. The rough work ordinarily takes $\frac{2}{5}$ of the total time required to complete the house. What is the total time required?
- A. $5 \frac{1}{3}$ days
 - B. 10 days
 - C. 16 days
 - D. 20 days
 - E. 40 days
20. The lowest temperature during the night was only $\frac{1}{3}$ more than $\frac{1}{2}$ as high as the highest temperature during the day. The two temperatures added together totaled 100 degrees. What was the lowest temperature?
- A. 30 degrees
 - B. 40 degrees
 - C. 50 degrees
 - D. 70 degrees
 - E. 80 degrees