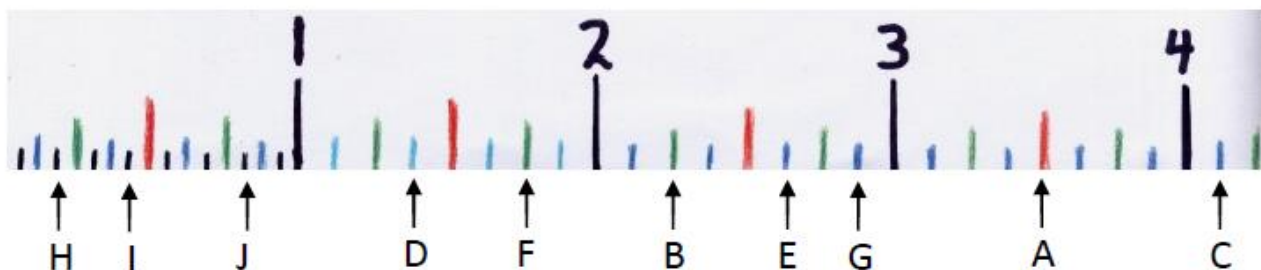


6th Grade Assignment – Week #12

Individual Work:

- Flashcards! (Yes, learning these facts is still important!) Are you keeping up with the flashcard? The facts you should learned through flashcards are found on Sheet #2, Sheet #6, and Sheet #9. Learning these facts will help your future math studies. It only takes a couple of minutes per day.
- See how much you can do on Sheet #12 in the workbook.
- *Reading a Ruler* (with US Measurements).
Give the reading (in order from A to J) of each mark on the ruler.



Group Assignments:

For Tuesday

- 1) Convert $\frac{278}{1000}$ into a decimal
- 2) Convert $\frac{278}{999}$ into a decimal
- 3) Convert $\frac{278}{9999}$ into a decimal
- 4) Convert $\frac{278}{9990}$ into a decimal
- 5) Convert $\frac{47}{99999}$ into a decimal
- 6) Convert $\frac{47}{99000}$ into a decimal
- 7) Convert $\frac{47}{99990}$ into a decimal
- 8) Convert $\frac{5}{9990000}$ into a decimal
- 9) Convert 0.0071 into a fraction
- 10) Convert $0.\overline{71}$ into a fraction
- 11) Convert $0.\overline{071}$ into a fraction
- 12) Convert $0.0\overline{71}$ into a fraction
- 13) Convert $0.000\overline{071}$ into a fraction
- 14) Convert $0.\overline{004}$ into a fraction
- 15) Convert $0.00\overline{4}$ into a fraction
- 16) Convert $0.0000\overline{028}$ into a fraction

For Thursday

- Converting Temperatures. Use the method explained in Wednesday's lecture
- 17) What 15°C in Fahrenheit?
- 18) What 42°C in Fahrenheit?
- 19) What 77°F in Celsius?
- 20) What 42°F in Celsius?

For either Tuesday or Thursday

- 21) *Puzzle!*
Keith has twice as many cards as Ben. If Keith gives 10 cards to Ben, then Ben will have 3 times as many cards as Keith. How many cards did they both start out with?
- 22) *Puzzle!*
My father will blow out the candles on his 95th birthday cake at exactly a date and time with only 3's in it. When was he born? How many days from now is his 95th birthday?

6th Grade Math – Sheet #12

Memorized facts.

(Note: *Convert* means fractions into decimals and decimals into fractions.)

- 1) $14 \cdot 3$
- 2) 16^2
- 3) $18 \cdot 2$
- 4) 14^2
- 5) $16 \cdot 4$
- 6) 18^2
- 7) Convert $\frac{3}{5}$
- 8) Convert $\frac{3}{4}$
- 9) Convert $\frac{7}{9}$
- 10) Convert $\frac{5}{8}$
- 11) Convert $\frac{2}{3}$
- 12) Convert $\frac{1}{6}$
- 13) Convert 0.4
- 14) Convert 0.3
- 15) Convert 0.375
- 16) Convert 0.83
- 17) Convert 0.8
- 18) 2^4
- 19) 3^4
- 20) 2^3
- 21) 4^3

- 22) 5^3
- 23) 2^6
- 24) 2^{10}
- 25) 4^5
- 26) 5^4
- 27) 2^5
- 28) 4^4

Optional Ones:

- 29) $13 \cdot 5$
- 30) $18 \cdot 4$
- 31) $16 \cdot 5$
- 32) $14 \cdot 4$
- 33) $18 \cdot 5$
- 34) $25 \cdot 8$
- 35) $18 \cdot 3$
- 36) $14 \cdot 5$
- 37) 2^7
- 38) 3^6
- 39) 7^3
- 40) 2^9
- 41) 8^3
- 42) 2^8
- 43) 6^3
- 44) 3^5
- 45) 9^3

Do it in your head.

- 46) $36000 \div 90$
 - 47) $4.35 \cdot 4$
 - 48) $999 \cdot 4$
 - 49) $9999 \cdot 8$
 - 50) $102 \cdot 105$
 - 51) $3045 - 2989$
 - 52) $(0.06)^2$
 - 53) 10^6
 - 54) Convert $\frac{9}{10}$
 - 55) Convert $\frac{47}{99}$
 - 56) Convert $\frac{743}{1000}$
 - 57) Convert $\frac{29}{1000}$
 - 58) Convert $\frac{29}{999}$
 - 59) Convert $\frac{873}{99900}$
 - 60) Convert $\frac{7}{99900}$
 - 61) Convert $\frac{7}{10000}$
 - 62) Convert $\frac{7}{9000}$
 - 63) Convert $\frac{59}{9990}$
- ## Estimate.
- 64) $5826 \cdot 394$
 - 65) $673989 \div 718$
 - 66) $85045 + 28495$

Fractions.

67) $\frac{39}{8} + 13\frac{5}{8}$

68) $\frac{4\frac{1}{2}}{\frac{4}{5}}$

69) What is $\frac{1}{6}$ of 24?

70) What is $\frac{2}{5}$ of 5500?

71) What is $\frac{2}{3}$ of 4?

72) What is $\frac{3}{8}$ of 280?

73) What is half of $\frac{4}{7}$?

74) What is half of $\frac{5}{11}$?

75) What is $\frac{4}{9}$ doubled?

76) What is $\frac{3}{8}$ doubled?

Formulas.*Temperature conversion formulas:*

$$C = \frac{5}{9} \cdot (F - 32)$$

$$F = \frac{9}{5} \cdot C + 32$$

77) What is 59°F in Celsius?

78) What is 30°C in Fahrenheit?

79) What is 212°F in Celsius?

Division.

80) Leave your answer as a mixed number.

$$62223 \div 8$$

81) Leave your answer as an exact decimal.

$$87.5 \div 4.44$$

Measurement.

82) 240 inches is how many feet?

83) 2½ pints is how many fluid ounces?

84) 2 tons is how many ounces?

85) A string is cut into two pieces measuring 2 feet 5 $\frac{7}{8}$ inches and 3 feet 9 $\frac{3}{8}$ inches. How long was the original string?

86) One board is 3' 4 $\frac{5}{8}$ " long, and another board is 5' 2 $\frac{1}{4}$ " long. How much longer is the second board?

Unit Cost.

87) 5 pounds of bananas cost \$2.45. How much do 15 pounds of bananas cost?

88) Which is a better deal: spring water sold at 29¢ per gallon, or spring water sold at 7¢ per quart?