

Math 10 – Unit 1 – REVIEW of 1.1 to 1.9

To the Test – be sure to bring:

- (1) your personally-prepared 8 ½ " by 11" study guide for this test
- (2) your simple, non-graphing calculator and
- (3) your pencils

1. What is the word name for the following number: 3,468,207

Three million, four hundred sixty-eight thousand, two hundred seven

2. What is the standard (numerical) form of the written number:

Fifteen billion, two hundred twelve million, five

↑
NO AND!

15,212,000,005

3. Tay is trying to limit herself to 1500 calories per day. Her breakfast was 270 calories; her lunch was 450 calories; and her supper was 820 calories. Was she over or under her daily limit and by how much?

$$\begin{array}{r} 270 \\ 450 \\ 820 \\ \hline 1540 \end{array} \text{ total}$$

$$\begin{array}{r} 1540 \\ -1500 \\ \hline 40 \end{array} \text{ calories OVER}$$

4. TJ budgeted \$238 for books and \$94 less than that for art supplies. How much was budgeted for art supplies?

$$\begin{array}{r} 238 \\ -94 \\ \hline 144 \end{array}$$

\$144 for art supplies

5. KT opened a checking account by depositing \$50. Checks were written for the month in the amounts of \$12, \$85, and \$13. Additional deposits of \$55 and \$225 were made. What was the total of all deposits and checks and the balance at the end of the month?

deposits

$$\begin{array}{r} 50 \\ 55 \\ 225 \\ \hline \$330 \end{array}$$

checks

$$\begin{array}{r} 12 \\ 85 \\ 13 \\ \hline \$110 \end{array}$$

$$\begin{array}{r} 330 \\ -110 \\ \hline \$220 \end{array} \text{ balance}$$

6. Round each of the following addends to the nearest ten thousand and estimate the sum.

$$14,287 + 38,739 + 32,356$$

↑ ↑ ↑
look at 4 look at 8 look at 2

Rounded: 10,000 40,000 30,000

Estimate: 80,000

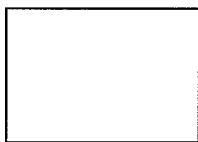
7. JG was in charge of mailing batch letters. So far, the five batches mailed contained 195, 538, 689, and 239 letters. Rounding each batch to the nearest hundred, approximately how many letters (in hundreds) were mailed?

	195	538	689	239
Rounded	200	500	700	200

about 1600 letters

8. Fill in the blank with the correct symbol (less than or greater than): 15 < 21

9. (4 pts) A room has the dimensions 11 ft by 13 ft. Tile costs \$2 per square foot. What will be the cost to tile the floor of this room?

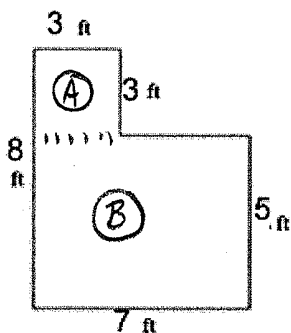


Answer: It will cost \$ 286 to tile the room.

$$\begin{array}{r} 11 \\ \times 13 \\ \hline 33 \\ 110 \\ \hline 143 \end{array} \qquad \begin{array}{r} 143 \\ \times 2 \\ \hline 286 \end{array}$$

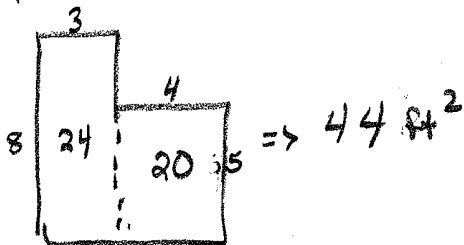
10. Find the area of the following figure.

Answer: The total area is 44 ft²

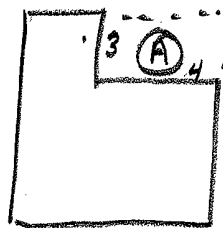


$$\begin{aligned} A &= 3 \times 3 = 9 \\ B &= 7 \times 5 = 35 \\ \hline &44 \text{ square feet} \end{aligned}$$

OR



OR



$$\begin{aligned} \text{whole box} & 7 \times 8 = 56 \\ \text{minus } A &= 3 \times 4 = 12 \\ \hline &44 \end{aligned}$$

Division by 0 is undefined

11. Complete:

$5 \div 0 = \underline{\hspace{1cm}}$ and $0 \div 5 = \underline{0}$

$\frac{0}{0} = \text{undefined}$

12. Divide:

$$\begin{array}{r} 64 \text{ r } 5 \\ 7 \overline{)453} \\ \underline{-42} \\ 33 \\ \underline{-28} \\ 5 \end{array}$$

$\frac{0}{5} = 0$

13. Evaluate:

$9^2 = 9 \cdot 9 = 81$

14. Evaluate:

$5^1 = \underline{5}$ and $5^0 = \underline{1}$ number to zero power is 1

15. Which of the following is a true statement?

- A. $3,608 = (3 \cdot 10^3) + (6 \cdot 10^2) + (8 \cdot 10^0)$
 B. $3,608 = (3 \cdot 10^4) + (6 \cdot 10^3) + (8 \cdot 10^1)$

16. Round 364,594,308 to one significant digit and write the results in Scientific Notation.

4×10^8 ← number of zeros
 400,000,000

17. Evaluate:

$3^2 \div (2+1) + 7$
 $9 \div 3 + 7$
 $3 + 7$
10

- P parenthesis
- E exponents
- MD mult/divide
- AS add/subtract

18. Evaluate

$(2^3 + 3)^2 + 36 \div 3 \cdot 4$
 $(8+3)^2 + 12 + 12 \cdot 4$
 $11^2 + 12 + 48$
 $121 + 36 \div 3 \cdot 4$
169

19. Translate "Forty plus nine is seven squared" into an equation.

$40 + 9 = 7^2$

20. Translate "Fifteen minus three is seven less than nineteen" into an equation.

$15 - 3 = 19 - 7$