

Name: _____ Period: _____

Week 25 Homework Packet – 7th Grade Math

Score
/4

Week Score
/12

Stamp

ASSIGNMENT DUE TUESDAY, FEBRUARY 14, 2017

Unit 3, Chapter 5 – Expressions

Evaluate each expression below if $a = 3$, $b = 8$, and $c = -4$. **SHOW ALL WORK!** An example has been done for you to show you how to show work.

Ex.) $3a - c$

$$\begin{array}{r} 3(3) - (-4) \\ 9 + 4 \\ \hline 13 \end{array}$$

1) $2b - a$

2) $a^2 + b$

3) ab

4) $b(c + 2)$

5) c^2

6) $\frac{b}{c} + a$

7) $4a - 2b$

Skills Review

Determine which of the two fractions below is the larger of the two by finding the least common denominator. An example has been done for you. You must show work and you must use the LCD method or you will not receive a stamp.

Ex.) $\frac{3}{5}$ and $\frac{2}{3}$ LCD = 15
9/15 and 10/15
2/3 is larger

8) $\frac{1}{4}$ and $\frac{2}{7}$

9) $\frac{4}{5}$ and $\frac{7}{9}$

10) $\frac{7}{9}$ and $\frac{2}{3}$

11) $\frac{3}{10}$ and $\frac{1}{3}$

12) $\frac{1}{5}$ and $\frac{2}{11}$

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ASSIGNMENT DUE WED/THU. FEBRUARY 15/16. 2017

Unit 3, Chapter 5 – Expressions

1) Jennifer wants to buy a new MP3 player that costs \$80. She already has \$35 saved and is able to earn \$10 per week by mowing lawns. Write an algebraic expression that represents the total amount of money that Jennifer saves after w weeks.

2) For a walk-a-thon a sponsor committed to give you a flat fee of \$5 plus \$2 for every mile that you walk. Write an algebraic expression that represents the total amount of money that the sponsor will donate if you walk m miles.

3) You and four of your friends are planning a party. Each of you plans to contribute the same amount of money for food, drinks, and supplies. Write an algebraic expression that represents the total amount of money you spend on the party if each person contributes d dollars.

4) A taxi charges you a flat fee of \$3 for a ride, then charges 80 cents per mile. Write an algebraic expression that represents the total fare for the ride if you drive for m miles.

5) A web site charges a membership fee of \$10.99 per month, plus they charge 99 cents to download a game. Write an algebraic expression to represent the total cost in dollars you will pay in one month if you download g games.

6) The fee to rent a boat on the harbor in San Francisco is \$45, plus an additional \$15 per hour that you rent. Write an algebraic expression to represent the total rental fee for a boat if you use it for h hours.

Skills Review

For each problem below, write the equation, then solve the equation to get the answer. You will not receive a stamp if you don't include the equation! You will need a calculator. Round answers to the nearest tenth or tenth of a percent.

7) What number is 45% of 98?

8) The number 83 is what percent of 63?

9) 162 is what percent of 393?

10) 57% of what number is 193?

11) 182% of the number 403 is what?

12) The number 14 is what percent of 206?

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ASSIGNMENT DUE FRIDAY, FEBRUARY 17, 2017

Unit 3, Chapter 5 – Expressions

For each problem below, you will answer the question given, then describe, using complete sentences, how you were able to arrive at the answer. An example has been done for you.

Ex.) Consider the sequence 12, 19, 26, 33, ... What is the 27th term of the sequence? How do you know that your answer is correct?

The 27th term is 194. I know because each term can be found by multiplying the position of the term by 7, then adding 5. When I multiply 27×7 , I get 189. Then I add 5 to get 194.

1) Consider the sequence 10, 14, 18, 22, ... What are the next three terms in the sequence? Describe how you were able to get the answer.

2) For the sequence 5, 8, 11, 14, ... What is the 1000th term in the sequence? How do you know that your answer is correct?

3) For the sequence 23, 21, 19, 17, ... What are the next three terms in the sequence? Describe how you were able to get the answer.

For each problem below, write an algebra expression that models the sequence. An example has been done for you.

Ex.) 34, 31, 28, 25, 22, 19, ...

$$37 - 3x$$

4) 21, 23, 25, 27, 29, ...

5) 12, 22, 32, 42, 52, 62, ...

6) 71, 66, 61, 56, 51, ...

7) 12, 14, 16, 18, 20, ...

8) -5, -1, 3, 7, 11, 15, ...

9) 10, 20, 30, 40, 50, ...

10) 34, 45, 56, 67, 78, 89, ...

11) 0, 9, 18, 27, 36, 45, ...