Milestones Review #1

1. Evaluate 47 - 3.85

- a. 44.85
- c. 43.15
- b. 43.85
- d. 338

2. Which of the following does NOT have a value of 81?

a.  $3^4$ 

- $c.3 \cdot 3 + 72$
- b.  $3^2+3 \cdot 3$  d.  $9^2$

3. The cost of Bentley's large storage unit is \$285.47 per month. If Bentley pays in advance for 3 years of storage, how much will he pay in all?

- a. \$856.41
- c. \$9,951.28
- b. \$6,851.28 d. \$10,276.92

4. What is the solution to x + 4 = 37?

a. 32

c. 41

b. 33

d. 42

5. What is  $8 \div 2\frac{1}{2}$ ?

a.  $3\frac{1}{5}$ 

c.  $16\frac{1}{2}$ 

b.  $4\frac{1}{2}$ 

d. 20

Name:

Class Period: 1 2 3 4 Date: \_\_\_\_\_

6. Evaluate  $\frac{1}{\alpha^2}$ 

- a. 81
- C.  $\frac{1}{18}$

b.  $\frac{1}{81}$ 

d. 18

7. Evaluate 36 + 9.87

- a. 44.87
- c. 45.870
- b. 1347
- d. 26.130

8. Simplify using the distributive property:

- a. 3x 11
- c. 6x 11
- b. 6x 33
- d. 2x 33

9. Which expression does NOT have the same value as 7(4 + 22)?

- a. 7 26 c. 7 4 + 22
- b.  $(7 \cdot 4) + 154$  d.  $28 + (7 \cdot 22)$

10. Find the product.  $1\frac{4}{9} \cdot 2$ 

a.  $1\frac{2}{3}$ 

b. 2

d.  $2\frac{8}{9}$ 

Milestones Review #2

1. What is the value of the expression below?

$$75 - 7 \cdot 2^3$$

a. 19

c. 136

b. 61

d. 272

2. What is the reciprocal of  $3\frac{2}{3}$ ?

a.  $\frac{3}{11}$ 

C.  $\frac{11}{3}$ 

b.  $\frac{3}{2}$ 

 $d.\frac{1}{3}$ 

3. Megan read 15% of a book last night. What is another way of expressing this number?

- a. 0.15%
- C.  $\frac{3}{20}$

b.  $\frac{15}{85}$ 

d. 15

4. Evaluate 7a - 5 if a=9

a. 48

c. 68

b. 58

d. 74

5. Mark operates a landscaping business in Duluth. He charges \$8.50 per hour to perform simple yard work. If he works  $4\frac{1}{2}$  hours on a particular yard, what is his fee?

- a. \$13.00
- c. \$34.00
- b. \$18.75
- d. \$38.25

Name:

Class Period: 1 2 3 4 Date:

6. What is  $\frac{5}{7}$  divided by  $\frac{7}{10}$ ?

a.  $\frac{1}{2}$ 

C.  $\frac{2}{3}$ 

b.  $\frac{48}{49}$ 

d.  $1\frac{1}{49}$ 

7. Mike scored 22 points in the basketball game. He made 7 free throws in 11 attempts. What is the ratio of attempts to free throws?

- a. 7 to 11
- c. 11 to 7
- b. 7 to 22
- d. 22 to 7

8. What is the solution of this inequality?

$$x - 12 < 36$$

- a. x < 3
- c. x < 48
- b. x < 24
- d. x < 72

9. At a used book sale Ms. Payne bought x books at \$1.85 each. Which expression tells how much she spent in all?

- a. 1.85x
- c.  $(1.85 \cdot 2) + x$
- b. 1.85 + x
- d. x + 1.85

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