Class: _____

Date: _____

unit 3 practice test

Multiple Choice

Identify the choice that best completes the statement or answers the question.

1. Write $\frac{9}{25}$ as a decimal.

- a. 1.6
- b. 0.64
- c. 0.4
- d. 0.36

2. Write $\frac{23}{8}$ as a decimal. Identify the decimal as terminating or repeating.

a. 2.875; terminating

c. 2.9; terminating

b. 2.8753; repeating

d. $0.958\overline{3}$; repeating

3. Write 0.54 as a fraction in simplest form.

4. What is the least number in the set?

$$\frac{2}{3}$$
, $\frac{3}{4}$, $\frac{5}{8}$, $\frac{1}{2}$

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

5. Add.

6.068 + 1.38

- a. 7.448
- b. 7.438
- c. 7.348
- d. 7.338

6. Add.

0.769 + 24.3 + 5.8

- a. 1.07
- b. 108.89
- c. 1.0889
- 30.869

7. Multiply.

- 2.2×70
- a. 154
- b. 1540
- c. 15.4
- d. 92

8. Determine the cost of 3.54 kg apples at \$0.95/kg.

- a. \$33.63
- b. \$4.49
- \$3.36 c.
- \$0.45 d.

9. Divide.

- $1.98 \div 0.3$
- a. 0.066
- b. 6.6
- c. 66
- d. 0.66

10. Estimate the quotient.

- $58.9 \div 2.9$
- a. 0.203
- b. 203
- 20.3
- d. 2.03

11. How many pieces of ribbon 0.6 m long can be cut from 13.2 m of ribbon?

- a. 22
- b. 2.2
- c. 16
- d. 220

- 12. At the Mega Theater, 8 out of the 20 movies this month are comedies. What percent of the movies are comedies?
 - 0.4%a.
- b. 40%
- 4%
- d. 250%
- 13. Everyone in Stuart's class has to do a science project.

Out of the 40 students, 60% have completed their projects.

How many students have completed their projects?

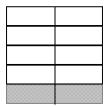
- a. 20 students
- b. 64 students
- 16 students
- 24 students

- 14. Write 0.28 as a fraction in simplest form.

- 15. Write 6% as a decimal.
 - a. 0.6
- 0.006
- 6
- 0.06

- 16. Write $\frac{2}{5}$ as a percent.
 - 400%
- 40%
- 20%
- 200%

- 17. Write 0.73 as a percent.
 - a. 0.73%
- 73%
- 0.073%
- 7.3% d.
- 18. What fraction of the diagram is shaded? Write the fraction as a percent.



- a. $\frac{4}{5}$; 8%

- b. $\frac{2}{10}$; 20% c. $\frac{2}{10}$; 2% d. $\frac{4}{5}$; 80%
- 19. Calculate 40% of 65.

b. 7

- 26
- d. 13
- 20. Kevin earned \$190 babysitting. He saved 20% of his money. How much did he save?
 - \$38
- b. \$53
- \$43 c.
- d. \$48

Short Answer

- 21. A baker wants to make three different kinds of shortbread. The recipes call for 2.47 kg, 3.27 kg, and 5.11 kg of butter. How many kilograms of butter does the baker need? Estimate, then calculate.
- 22. A rectangle has an area of 2.1 m². The width of the rectangle is 0.6 m. What is the length of the rectangle?

23. Evaluate. $7 + 8.8 \times 7 \div 8 - 0.4 \times 8$

24. Evaluate.
$$8.9 \times 12 - (8.8 - 3.4)$$

- 25. Use any method. Order the following numbers from greatest to least. $1\frac{5}{8}, \frac{7}{4}, 1.5, 1.875$
- 26. Use any strategy to Order the numbers from greatest to least. $1\frac{3}{8}$, $\frac{9}{8}$, $\frac{3}{2}$, $1\frac{2}{5}$
- 27. Frank buys 3 pencils for \$0.84 each and 4 notebooks for \$3.58 each. How much does he have to pay?
- 28. The food Caitlin and Rory order in a restaurant cost \$52. Tax of 8% was added, then Caitlin added a tip of 20% of the total. What was the final cost of the meal?

unit 3 practice test Answer Section

MULTIPLE CHOICE

1.	ANS:		PTS:			-		3.1 Fractions to Decimals	
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2.	ANS:		PTS:					3.1 Fractions to Decimals	
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13.	LOC:			Number		Problem-solvi		3.8 Solving Percent Problems	
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		OP: Number KEY: Conceptual Understanding						7.113	
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18. ANS: B PTS: 1 DIF: Moderate

REF: 3.7 Relating Fractions, Decimals, and Percents LOC: 7.N3

TOP: Number KEY: Conceptual Understanding

19. ANS: C PTS: 1 DIF: Easy REF: 3.8 Solving Percent Problems

LOC: 7.N3 TOP: Number KEY: Procedural Knowledge

20. ANS: A PTS: 1 DIF: Moderate REF: 3.8 Solving Percent Problems

LOC: 7.N3 TOP: Number KEY: Problem-solving Skills

SHORT ANSWER

21. ANS:

Use front-end estimation: 2 + 3 + 5 = 10; 10.85 The baker needs approximately 10 kg of butter.

The baker needs exactly 10.85 kg of butter.

PTS: 1 DIF: Moderate REF: 3.3 Adding and Subtracting Decimals

LOC: 7.N2 TOP: Number KEY: Problem-solving Skills

22. ANS:

3.5 m

PTS: 1 DIF: Moderate REF: 3.5 Dividing Decimals

LOC: 7.N2 TOP: Number KEY: Problem-solving Skills

23. ANS: 11.5

PTS: 1 DIF: Moderate REF: 3.6 Order of Operations with Decimals

LOC: 7.N2 TOP: Number KEY: Procedural Knowledge

24. ANS:

101.4

PTS: 1 DIF: Moderate REF: 3.6 Order of Operations with Decimals

LOC: 7.N2 TOP: Number KEY: Procedural Knowledge

25. ANS:

 $1.875, \frac{7}{4}, 1\frac{5}{8}, 1.5$

PTS: 1 DIF: Moderate REF: 3.2 Comparing and Ordering Fractions and Decimals

LOC: 7.N7 TOP: Number KEY: Procedural Knowledge

26. ANS:

 $1\frac{3}{8} = 1.375; \frac{9}{8} = 1.125; \frac{3}{2} = 1.5; 1\frac{2}{5} = 1.4$

From greatest to least: $\frac{3}{2}$, $1\frac{2}{5}$, $1\frac{3}{8}$, $\frac{9}{8}$

PTS: 1 DIF: Moderate REF: 3.2 Comparing and Ordering Fractions and Decimals

LOC: 7.N7 TOP: Number KEY: Procedural Knowledge

PROBLEM

27. ANS:

Frank has to pay \$16.84.

PTS: 1 DIF: Moderate REF: 3.4 Multiplying Decimals LOC: 7.N2 TOP: Number KEY: Problem-solving Skills

28. ANS:

 $Cost + tax: $52 + 0.08 \times $52 = 56.16

Total cost: $$56.16 + 0.20 \times $56.16 = 67.39

The total cost of the meal was \$67.39.

PTS: 1 DIF: Difficult REF: 3.8 Solving Percent Problems

LOC: 7.N3 TOP: Number KEY: Problem-solving Skills