

## 6<sup>th</sup> Grade Practice Test

### Objective 1.1

1. Dale used these steps to form a number pattern.
  1. The first term is 3.
  2. The second term is 5.
  3. Each term after the second is the sum of the two terms just before it.

The first five terms in Dale's pattern are the following.

3, 5, 8, 13, 21, ...

What are the next 3 terms?

- A 27, 34, 42
  - B 29, 37, 45
  - C 34, 55, 89
  - D 34, 55, 99
2. Mrs. Johnson asked her 6th-grade students to form a number pattern using these rules.

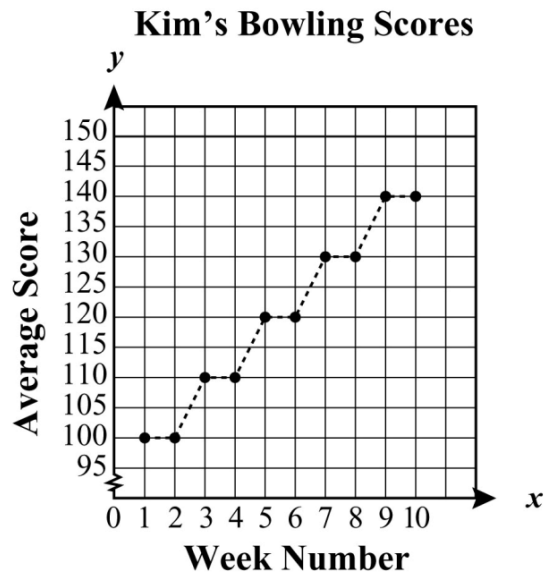
- 1) Use the number 1 as the first term.
- 2) To find any other term, double the previous term and add 2.

The first two numbers in the pattern are 1 and 4. What is the 4th number in the pattern?

- A 20
- B 22
- C 44
- D 46

Objective 1.2

3. The graph below shows that Kim's mean (average) bowling scores have formed a pattern for the last 10 weeks. Her mean has stayed the same for two weeks, and then increased by the same amount the next week.



If the pattern continues for the next two weeks, what will Kim's mean score be in week 12?

- A 150  
B 155  
C 160  
D 165
4. What is the value of the following expression when  $p=9$ ?

$$6p + 5$$

- A 49  
B 54  
C 59  
D 68

5. If  $x = 3$ , what is the value of the following expression?

$$3x^2 + 2$$

- A 17  
B 20  
C 29  
D 83
6. If  $X = 6$  what is the value of the expression below?

$$(2 + X)^2$$

- A 8  
B 12  
C 16  
D 64
7. What is the value of the following expression when  $b = 5$ ?

$$b + (b^2 \cdot 3) - 5$$

- A 75  
B 80  
C 85  
D 90

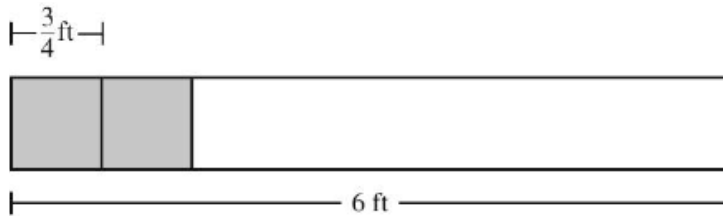
Objective 2.1

8. Chuck cut an entire length of rope into 28 pieces, each  $1\frac{1}{2}$  feet (ft) long. What was the length of the rope before Chuck cut it?
- A 14 ft  
B 21 ft  
C 32 ft  
D 42 ft

9. One winter in Enrique's home state, it snowed 39 inches in  $6\frac{1}{2}$  days. What is that rate in inches of snow per day?

- A 4 inches per day
- B 5 inches per day
- C 6 inches per day
- D 7 inches per day

10. Mrs. Johnson plans to cut a 6 foot (ft) board into pieces that are  $\frac{3}{4}$  ft long, as shown in the diagram below.



How many pieces can she get from this board?

- A 9 pieces
- B 8 pieces
- C 6 pieces
- D 4 pieces

**Objective 2.2**

**11. The large square below was divided into smaller squares of equal size.**

6	7					7	
		4	2				
3				7			6
	7		5				
		1				7	
7					4		4
		6	7				
7						3	
	4	7	6				2
5		7			3		

**What fractional part of the large square is represented by the number of small squares that contain the number 7?**

- A  $\frac{10}{90}$
- B  $\frac{9}{10}$
- C  $\frac{7}{100}$
- D  $\frac{1}{10}$

12. The table shows the number of pies eaten by the top four contestants in a middle school pie-eating contest.

Contestant Number	Number of Pies Eaten
Ali	$5\frac{1}{2}$
Brett	$5\frac{1}{4}$
Lois	$5\frac{2}{3}$
Zeke	$5\frac{3}{8}$

Which of the following lists the number of pies eaten in order from least to greatest?

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

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

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

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

13. Fractional parts of the rectangles below have been shaded.

Figure 1

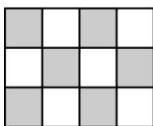


Figure 2

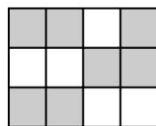


Figure 3

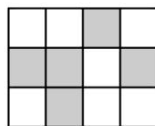
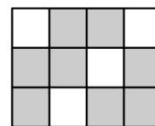


Figure 4



Which rectangle best represents the decimal 0.583?

- A Figure 1
- B Figure 2
- C Figure 3
- D Figure 4

**Objective 2.3**

14. Sandra bought four bags of nails for a carpentry project. The weights of the bags, in pounds (lb), are shown below.

$2\frac{5}{6}$ lb, 1	$\frac{1}{4}$ lb, 2	$\frac{1}{8}$ lb, 1	$\frac{3}{4}$ lb
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Which is closest to the total weight of the four bags of nails?

- A 10 lb  
B 8 lb  
C 6 lb  
D 4 lb
15. Justin prepared 987 ads for mailing. To prepare each ad, it took him about 7 seconds (sec) to put each ad into an envelope and 8 seconds to seal, label, and stamp each envelope. Which is closest to the total amount of time it took Justin to prepare the ads?
- A 1,200 sec  
B 7,000 sec  
C 8,500 sec  
D 15,000 sec
16. Nikki and four friends had lunch at their favorite restaurant. The total bill was \$29.00, and they wanted to leave a 15% tip. Which amount of money is closest to the 15% tip?
- A \$3.00  
B \$3.50  
C \$4.00  
D \$4.50

**Objective 2.5**

17. What is the value of the expression shown below?

$$4 + 2(1 + 3^2) - 1$$

- A 17
- B 19
- C 23
- D 35

18. What is the value of the expression shown below?

$$4^2 + (6 - 5)^2 \div (4 + 4) - 7$$

- A  $1\frac{1}{4}$
- B  $9\frac{1}{8}$
- C 17
- D 25

19. Which choice gives the correct order of operations to evaluate the expression below?

$$10 + (8 - 3) \div 5 \cdot 2$$

- A +, -,  $\cdot$ ,  $\div$
- B  $\cdot$ ,  $\div$ , +, -
- C -,  $\cdot$ ,  $\div$ , +
- D -,  $\div$ ,  $\cdot$ , +



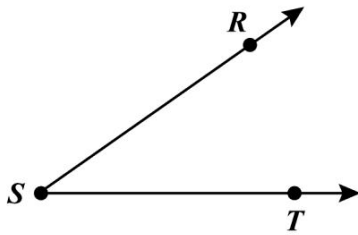
20. According to the correct order of operations, which of these could be performed first to simplify the following expression?

$$3^2 + 24 \div 6 \cdot 2 + (10 + 6^2)$$

- A  $3^2 + 24$
- B  $6 \cdot 2$
- C  $6^2$
- D  $10 + 6$

Objective 3.1a

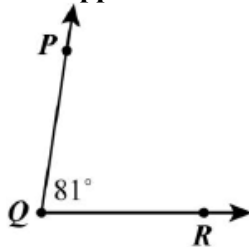
21. Which is closest to the measure of  $\angle RST$ ?



- A  $150^\circ$
- B  $120^\circ$
- C  $70^\circ$
- D  $35^\circ$

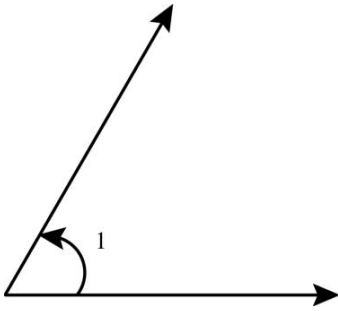
Objective 3.1b

22. What is the measure of the angle that is the supplement of  $\angle PQR$ ?



- A  $9^\circ$
- B  $90^\circ$
- C  $99^\circ$
- D  $180^\circ$

23. Angle 1 has a measure of  $60^\circ$ .

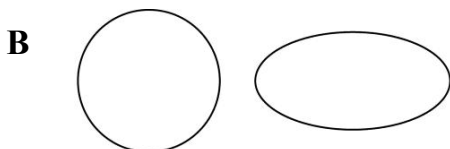
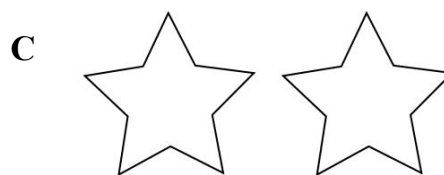
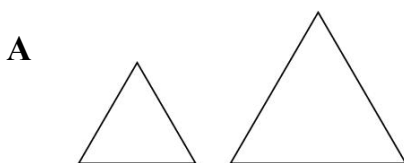


What is the measure of the angle that is the complement of angle 1?

- A  $120^\circ$
  - B  $90^\circ$
  - C  $40^\circ$
  - D  $30^\circ$
24. The measure of angle B is  $118^\circ$ , and angle B is the supplement of angle C. Which statement below is true about angle B and angle C?
- A They are both obtuse angles.
  - B The sum of their measures is  $90^\circ$ .
  - C The sum of their measures equals  $360^\circ$ .
  - D One angle is acute and one angle is obtuse.

Objective 3.2

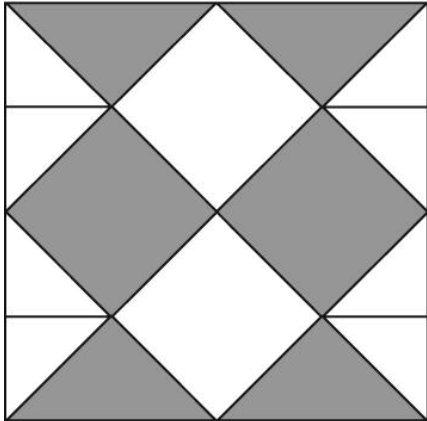
25. Which shows a pair of shapes that appear to be similar but not congruent?



26. Which describes an example of congruent shapes?

- A The lengths of the sides of 2 triangles are equal.
- B The edges of one square are twice as long as the edges of a second square.
- C The height of one ice-cream cone is 4 inches, and the height of another ice-cream cone is 6 inches.
- D The length of a packing box is  $\frac{1}{3}$  the length of a second packing box.

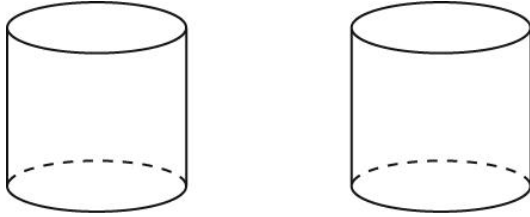
27. The window design below is made of triangles and quadrilaterals.



Which statement best describes the shapes in the window design?

- A All the shapes appear to be similar.
- B All the triangles appear to be congruent and similar.
- C All the quadrilaterals appear to be congruent.
- D All the triangles appear to be congruent but not similar.

28. Albert correctly stated that these two figures are congruent.



Which statement best describes what it means for these figures to be congruent?

- A Both figures have the same shape but are different sizes.
- B Both figures have the same height but a different radius.
- C Both figures have the same radius but a different height.
- D Both figures have the same shape and same size.

Objective 4.2

29. Ted calculated the area of the top surface of his workbench to be 4320 square inches. What is 4320 square inches converted to square feet (sq ft)?

- A 30 sq ft
- B 40 sq ft
- C 360 sq ft
- D 432 sq ft

30. Don bought a melon that weighed  $10\frac{1}{2}$  pounds (lb). What was the weight of the melon in pounds and ounces (oz)?

- A 10 lb 2 oz
- B 10 lb 5 oz
- C 10 lb 8 oz
- D 10 lb 12 oz

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