

EAB Basic Skills Test

Math Number:

Show ALL work for full credit

Name: _____

Date: _____

1. $5^3 =$

- A. $5 \times 5 \times 5$ B. $5 + 5 + 5$
C. $3 \times 3 \times 3 \times 3 \times 3$ D. $3 + 3 + 3 + 3 + 3$

2. Which of the following is equivalent to the expression below?

$$10 \times 10 \times 10 \times 10 \times 10$$

- A. 10×4 B. 10×5
C. 10^4 D. 10^5

3. Simplify:

$$(-5)^3 = ?$$

- A. -125 B. -15 C. 15 D. 125

4. Which is equivalent to 4^3

- A. 12 B. 48 C. 64 D. 81

5. What is $\frac{3}{5}$ written as a percent?

- A. 15% B. 30% C. 45% D. 60%

6. Which fraction means the same as 0.17?

- A. $\frac{17}{10}$ B. $\frac{17}{100}$ C. $\frac{17}{1000}$ D. $\frac{17}{1}$

7. Which number has the same value as 0.14?

- A. 0.14% B. 1.40%
C. 14.0% D. 140.0%

8. Sofia ate $\frac{3}{4}$ of her candy. What is the decimal equivalent of $\frac{3}{4}$?

- A. 0.75 B. 0.50 C. 0.25 D. 0.20

9. Which expression is the same as 11%?

- A. $\frac{1}{11}$ B. 0.11 C. 1.11 D. 1:11

10. $4 + (-3) =$

- A. -7 B. -1 C. 1 D. 7

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

$$-6 + (-9)$$

- A. -15 B. -3 C. 3 D. 15

12. What is the value of the expression below?

$$2 + (-5)$$

- A. 7 B. 3 C. -3 D. -7

13. Solve:

$$56 - (-42)$$

- A. -98 B. -14 C. 14 D. 98

14. Solve:

$$27 - (-9)$$

- A. -3 B. -18 C. 18 D. 36

15. Look at the problem below.

$$x + y = 10$$

If $x = 4$, what is y ?

- A. 14 B. 8 C. 6 D. 4

16. What is x if $3x = 84$?

- A. 20 B. 21 C. 26 D. 28

17. What value of x makes this equation true?

$$92 = 2x$$

18. What is the value of n that makes the equation below true?

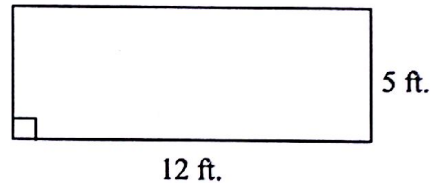
$$\frac{n}{3} = 12$$

- A. 4 B. 9 C. 15 D. 36

19. What value of y makes the equation below true?

$$\frac{y}{4} = 24$$

20. What is the area of this rectangle?

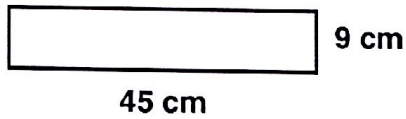


- A. 17 ft.^2 B. 24 ft.^2
C. 34 ft.^2 D. 60 ft.^2

21. What does x equal in this equation?

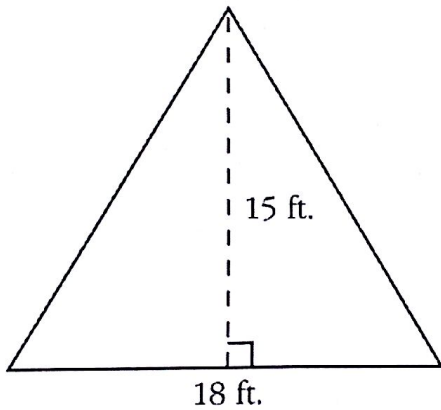
$$x + 4 = 2$$

22. Which equation below represents the area (A) of the rectangle in square centimeters?



- A. $45 = A \times 9$
- B. $A = 45 \times 9$
- C. $A = (2 \times 45) + (2 \times 9)$
- D. $45 = (2 \times A) + (2 \times 9)$

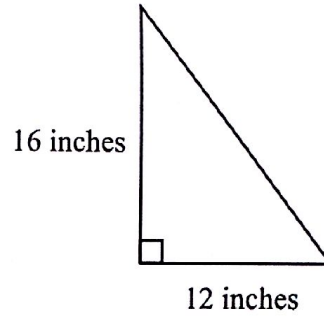
23. Use the triangle below to answer the following question.



What is the area of the triangle?

- A. 24 ft.^2
- B. 48 ft.^2
- C. 135 ft.^2
- D. 270 ft.^2

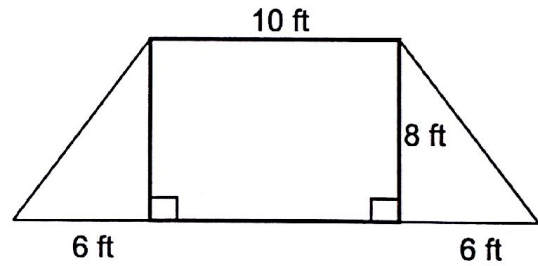
24. A triangle is shown below.



What is the area of the triangle in square inches?

- A. 56
- B. 96
- C. 192
- D. 384

25. Look at the figure below.



What is the total area of the figure?

- A. 64 cm^2
- B. 88 cm^2
- C. 120 cm^2
- D. 128 cm^2

26. If $N = 4$, what is the value of $6 \times N - 3$?

- A. 6
- B. 9
- C. 18
- D. 21

27. If $k = 6$, what is the value of $7k - 2$?

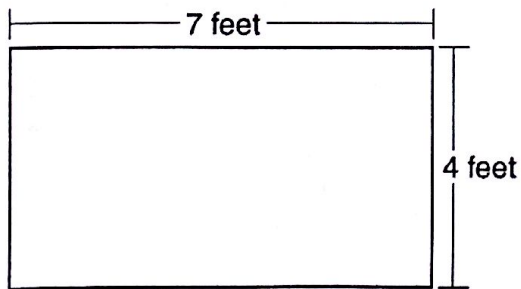
- A. 30
- B. 40
- C. 54
- D. 65

28. If $n = 31$, what is the value of $6 - n$?
- A. -37 B. -25 C. 25 D. 37

29. If $z = 3$, what is $5 \times (6 - z)$?
- A. 10 B. 15 C. 27 D. 53

30. If $s = 4$, what is the value of $s(9 - 4)$?
- A. 16 B. 20 C. 32 D. 45

31. The measurements of the tent floor that Tran and his brother will share are shown below.



What is the area of the floor?

- A. 11 sq. ft. B. 14 sq. ft.
C. 22 sq. ft. D. 28 sq. ft.

32. Which statement about the figures is true?

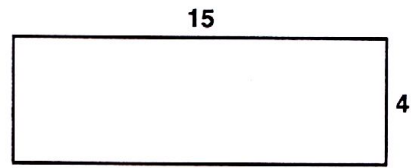


Figure 1

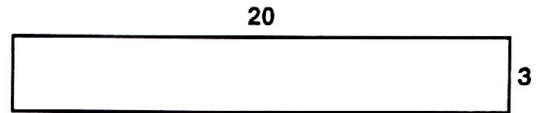


Figure 2

- A. They both have the same area.
B. They both have the same width.
C. They both have the same length.
D. They both have the same perimeter.