

**PART 1**  
No Calculator

1. Which of the following has the same value as  $\frac{4}{5} \times \frac{3}{2}$ ?
- A.  $\frac{4}{5} \div \frac{3}{2}$
- B.  $\frac{5}{4} \div \frac{3}{2}$
- C.  $\frac{4}{5} \div \frac{2}{3}$
- D.  $\frac{5}{4} \div \frac{2}{3}$
2. Which of the following is the same as division by a fraction?
- A. adding by the reciprocal of the fraction
- B. subtracting by the reciprocal of the fraction
- C. multiplying by the reciprocal of the fraction
- D. dividing by the reciprocal of the fraction
3. Melissa had  $\frac{1}{2}$  of a whole cake left over from her party. She cut that remaining cake into 3 pieces that were all the same size. Which of the following represents this situation?
- A.  $\frac{1}{2} + \frac{1}{3}$
- B.  $\frac{1}{2} \cdot 3$
- C.  $\frac{1}{2} - \frac{1}{3}$
- D.  $\frac{1}{2} \div 3$
4. Mr. Kue has  $6\frac{1}{2}$  gallons of juice for the school field day. He will put an equal amount of juice into each of 4 pitchers. Which of the following expressions represents the amount of juice that is in each pitcher?
- A.  $6\frac{1}{2} \times 4$
- B.  $6\frac{1}{2} \div 4$
- C.  $4 \div 6\frac{1}{2}$
- D.  $6\frac{1}{2} \div \frac{1}{4}$

## Grade 7 Fall Practice MEAP – Core GLCEs

5. What number goes in the box to make the following true?

$$\square \times \frac{1}{6} = 1$$

- A.  $\frac{1}{12}$
- B.  $\frac{1}{6}$
- C. 1
- D. 6

6. What number goes in the box to make the following true?

$$\frac{7}{9} \div \square = \frac{1}{9}$$

- A. 7
- B. 9
- C.  $\frac{1}{9}$
- D.  $\frac{6}{9}$

7. Multiply  $3\frac{1}{2} \times 2\frac{3}{4}$

- A.  $6\frac{3}{8}$
- B.  $8\frac{1}{2}$
- C.  $9\frac{5}{8}$
- D.  $9\frac{7}{8}$

8. Divide

$$\frac{3}{5} \div \frac{7}{8}$$

- A.  $\frac{21}{40}$
- B.  $\frac{24}{35}$
- C.  $1\frac{11}{24}$
- D.  $1\frac{19}{21}$

9. Which is equivalent to  $-8(-4)$ ?

- A. 32
- B. 2
- C. -12
- D. -32

10. Subtract  $-7 - (-3)$

- A. 4
- B. -4
- C. 10
- D. -10

11. Multiply  $\frac{2}{3} \cdot \frac{3}{4}$

- A.  $\frac{5}{12}$
- B.  $\frac{1}{2}$
- C.  $\frac{5}{7}$
- D.  $\frac{8}{9}$

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12. Divide  $6 \div \frac{1}{4}$
- A.  $\frac{2}{3}$
  - B.  $1\frac{1}{2}$
  - C.  $6\frac{1}{4}$
  - D. 24
13. What is 45% of 800?
- A. 36
  - B. 177
  - C. 360
  - D. 450
14. What is 25% of 500?
- A. 12.5
  - B. 125
  - C. 250
  - D. 1250
15. Juan found he weighs  $x$  pounds more now than he did last month. If Juan weighed 105 pounds last month, which of the following represents the amount he weighs now?
- A.  $105x$  pounds
  - B.  $105 \div x$  pounds
  - C.  $105 - x$  pounds
  - D.  $105 + x$  pounds
16. On the freeway, cars can travel at  $x$  miles in one hour. Which of the following best represents the number of miles a car can travel in 5 hours?
- A.  $5x$
  - B.  $5 \div x$
  - C.  $5 + x$
  - D.  $x - 5$
17. Which of the following is an algebraic equation?
- A.  $(m \div 3)4$
  - B.  $m = 3$
  - C.  $m + 3$
  - D.  $m \cdot 3$
18. Which of the following is an algebraic equation?
- A.  $x + 4$
  - B.  $2x + 4$
  - C.  $x^2 = 9$
  - D.  $x + 4 + 2y$

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19. What value of  $p$  makes the following true?

$$-4p = 16$$

- A. -20
  - B. -12
  - C. -4
  - D. 4
20. Which situation is best represented by the following?  $2x = 20$
- A. The average shower uses 2 gallons of water each minute. How many minutes long is a shower that uses 20 gallons of water?
  - B. The average parking space on the street is 20 feet long. How many feet are in 2 parking spaces?
  - C. How long will it take a 2 year old child to reach the age of 20?
  - D. There are 20 cookies in each package. How many cookies are in 2 packages?

21. Which is equivalent to  $x + 11 = 4$ ?

- A.  $x + 11 - 11 = 4 - 11$
- B.  $x - 11 = 4 - 11$
- C.  $x + 11 - 4 = 4 + 4$
- D.  $x + 11 = 4 + 11$

22. Which number can be put in the blank to make the statement true?

$$b - 7 = 18$$

$$b - 7 + \underline{\quad} = 18 + 7$$

$$b = 25$$

- A. -18
  - B. -7
  - C. 7
  - D. 18
23. Which of the following operations solve the equation below in one step?

$$\frac{n}{3} = 81$$

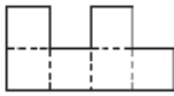
- A. Add 3 to  $\frac{n}{3}$  and 81
  - B. Subtract 3 from  $\frac{n}{3}$  and 81
  - C. Multiply  $\frac{n}{3}$  by 3 and 81 by 3
  - D. Divide  $\frac{n}{3}$  by 3 and 81 by 3
24. Which single step will correctly solve for  $p$  in the statement below?

$$4p = 12$$

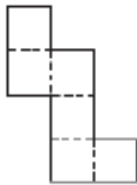
- A. Add 4 to both sides.
- B. Subtract 4 from both sides.
- C. Multiply both sides by 4.
- D. Divide both sides by 4.

25. Which is a net of a cube?

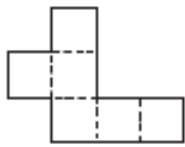
A.



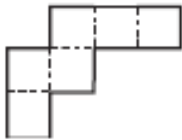
B.



C.



D.

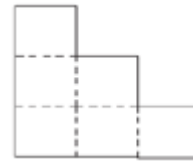


26. Which of the following is a net of a cube?

A.



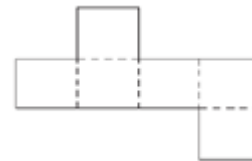
B.



C.



D.



Part 2  
Calculator Permitted

27. Which fraction is equivalent to  $\frac{3}{8}$ ?

- A.  $\frac{2}{7}$
- B.  $\frac{6}{16}$
- C.  $\frac{4}{9}$
- D.  $\frac{6}{8}$

28. Which of the following is equivalent to the ratio below?  
15:10

- A. 10:15
- B. 10:5
- C. 3:2
- D. 2:3

29. Gwen is going to make two batches of cookies. She needs  $\frac{2}{3}$  cup of sugar for each batch. Which is the *closest* to the total number of cups of sugar that Gwen will need?

- A.  $\frac{1}{2}$
- B.  $1\frac{1}{2}$
- C.  $2\frac{1}{2}$
- D. 3

30. A certain car can travel 25 miles on  $2\frac{1}{4}$  gallons of gasoline. At this rate, which of the following is closest to the total number of miles the car can travel on  $12\frac{1}{2}$  gallons of gasoline?

- A. 50
- B. 150
- C. 250
- D. 300

31. A rectangle has a length of 3.7 inches and a width of 3.5 inches. What is the area of the rectangle?

- A. 7.2 sq in.
- B. 12.95 sq in.
- C. 14.40 sq in.
- D. 16 sq in.

32. In the city of Marquette, it rained 4.28 inches in September and 8.9 inches in October. What was the total amount of rain for September and October in Marquette?

- A. 5.17 inches
- B. 12.00 inches
- C. 13.18 inches
- D. 38.09 inches

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33. If Sam rode his bike at an average rate of 15 miles per hour, what is the total distance he would travel in  $2\frac{1}{2}$  hours?

- A. 6 miles
- B. 17 miles
- C.  $30\frac{1}{2}$  miles
- D.  $37\frac{1}{2}$  miles

34. On a recent trip, Stephan traveled a total of  $9\frac{1}{2}$  hours at an average speed of 57 miles per hour. What was the total distance he traveled on the trip?

- A. 513.5 miles
- B. 518.7 miles
- C. 524.4 miles
- D. 541.5 miles

35. Which of the following represents the statement below?

the quotient of a number,  $y$ , and 7

- A.  $y + 7$
- B.  $y - 7$
- C.  $7y$
- D.  $\frac{y}{7}$

36. Karen practices on her drums the same number of hours per day. If  $x$  represents the number of hours she practices each day, which of the following represents the total number of hours she will practice in 20 days?

- A.  $20 + x$
- B.  $20x$
- C.  $20 - x$
- D.  $\frac{20}{x}$

37. What is the surface area of a cube with an edge length of 4 centimeters?

$$SA_{(\text{cube})} = 6 \times (\text{length of edge})^2$$

- A. 16 square centimeters
- B. 24 square centimeters
- C. 48 square centimeters
- D. 96 square centimeters

38. What is the volume of a rectangular prism with a length of 8 inches, a width of 6 inches, and a height of 6 inches?

- A.  $20 \text{ in}^3$
- B.  $36 \text{ in}^3$
- C.  $48 \text{ in}^3$
- D.  $288 \text{ in}^3$

