





**Exam not valid for Paper Pencil Test Sessions**

- 1 The first six shapes in a pattern are shown.



If this pattern continues in the same way, what will be the next shape?

- A 
- B 
- C 
- D 

- 2 Mrs. Wray wrote this pattern on the board.

1, 4, 7, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, 19, 22

If this pattern remains the same, what numbers should Mrs. Wray write in the blanks?

- A 8, 9, 10
  - B 10, 13, 16
  - C 9, 11, 13
  - D 10, 12, 14
- 3 Which equation shows the use of the associative property of addition?
- A  $5 \times (6 \times 1) = 5 \times 6$
  - B  $5 + (6 + 12) = (5 + 6) + 12$
  - C  $5 \times (8 + 4) = (5 \times 8) + (5 \times 4)$
  - D  $5 + (8 + 13) = 5 + (13 + 8)$

4

$$\underline{\quad ? \quad} = (36 + 13) + 7$$

**Which expression best completes the equation shown to illustrate the associative property of addition?**

- A  $(36 + 0) + 13 + 7$
- B  $36 + (13 + 7)$
- C  $(13 + 36) + 7$
- D  $21 + (6 + 29)$
- E  $7 + (36 + 13)$

**5 Which is true?**

- A  $6 \times 3 = 3 \times 2 \times 2$
- B  $6 \times 3 = 2 \times 9$
- C  $6 \times 3 = 9 \times 1$
- D  $6 \times 3 = 6 \times 2 \times 1$

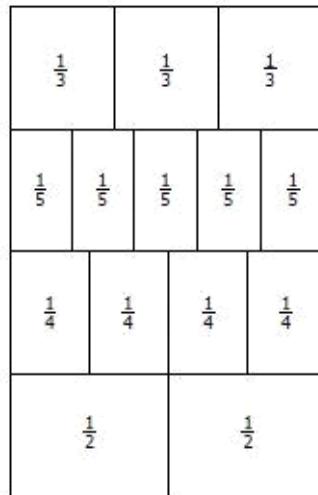
**6 Which statement is NOT true?**

- A  $16 \times 2 = 47 - 15$
- B  $27 \times 3 = 121 - 40$
- C  $9 \times 9 = 115 - 32$
- D  $8 \times 4 = 72 - 40$

**7 Which statement is true?**

- A  $\frac{3}{4} < \frac{1}{4}$
- B  $\frac{4}{5} < \frac{2}{5}$
- C  $\frac{9}{12} < \frac{11}{12}$
- D  $\frac{9}{10} < \frac{7}{10}$

8 There are 4 fraction strips shown.



Which fraction has the least value?

- A  $\frac{1}{4}$
- B  $\frac{1}{3}$
- C  $\frac{1}{2}$
- D  $\frac{1}{5}$

9 Directions: Click on each list of numbers you want to select. You must select all correct lists.

Identify the lists of numbers that are ordered from least to greatest.

$1\frac{3}{4}, 1\frac{5}{12}, \frac{7}{8}, \frac{3}{4}, \frac{2}{5}$	$\frac{1}{8}, \frac{2}{3}, \frac{3}{10}, 1\frac{9}{10}, 1\frac{11}{12}$
$\frac{1}{4}, \frac{3}{8}, \frac{5}{12}, 1\frac{1}{4}, 1\frac{3}{5}$	$\frac{7}{12}, \frac{5}{8}, \frac{3}{4}, 1\frac{1}{3}, 1\frac{4}{5}$
$\frac{1}{3}, \frac{4}{5}, \frac{7}{10}, 1\frac{1}{4}, 1\frac{2}{3}$	

- 10 Which of the following is equivalent to  $\frac{3}{4}$  ?
- A  $\frac{9}{12}$
  - B  $\frac{2}{8}$
  - C  $\frac{4}{5}$
  - D  $\frac{3}{8}$
- 11 Which of the following is equivalent to  $\frac{1}{6}$  ?
- A  $\frac{2}{12}$
  - B  $\frac{3}{9}$
  - C  $\frac{2}{10}$
  - D  $\frac{3}{12}$
- 12 Which list of numbers contains only common multiples of 10 and 15?
- A 10, 15, 20, 25, 30
  - B 10, 15, 20, 30
  - C 30, 60, 90, 120
  - D 10, 20, 30, 40
- 13 What is the greatest common factor of 36 and 42?
- A 3
  - B 6
  - C 2
  - D 12
- 14 What is the least common multiple of 10 and 15?
- A 150
  - B 20
  - C 75
  - D 30

15 Which list of numbers contains only common factors of 18 and 36?

- A 2, 3, 4, 5
- B 3, 6, 9, 18
- C 3, 6, 9, 12
- D 2, 4, 6, 8

16  $\frac{2}{6} + \frac{3}{4} =$

- A  $\frac{5}{12}$
- B  $\frac{1}{2}$
- C  $1\frac{1}{12}$
- D  $\frac{3}{10}$

17 What is the sum of  $\frac{1}{4}$  and  $\frac{5}{12}$  ?

- A  $\frac{4}{8}$
- B  $\frac{2}{12}$
- C  $\frac{2}{3}$
- D  $\frac{6}{16}$

18  $\frac{5}{8} - \frac{3}{8} =$

- A  $\frac{1}{8}$
- B 1
- C  $\frac{1}{4}$
- D  $\frac{2}{0}$

19 What is the difference between  $\frac{10}{12}$  and  $\frac{1}{4}$  ?

A  $\frac{13}{12}$

B  $\frac{9}{8}$

C  $\frac{7}{0}$

D  $\frac{7}{12}$

20 Mrs. Thomas bought  $\frac{5}{6}$  yard of red fabric and  $\frac{1}{2}$  yard of green fabric. How much more red fabric than green fabric did Mrs. Thomas buy?

A  $\frac{2}{6}$  yard

B  $\frac{5}{12}$  yard

C  $\frac{6}{8}$  yard

D  $\frac{4}{4}$  yard