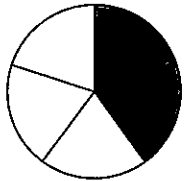


### Fraction Concepts

Multiple Choice: Circle the correct answer. If your answer is not given, circle "Not here."

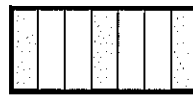
**Part 1**

1. How much of the circle is shaded?



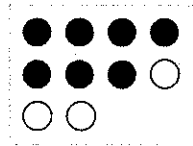
- A.  $\frac{3}{5}$
- B.  $\frac{2}{3}$
- C.  $\frac{2}{5}$
- D.  $\frac{5}{2}$
- E. Not here

2. How much of the rectangle is *not* shaded?



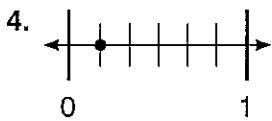
- A.  $\frac{3}{7}$
- B.  $\frac{4}{7}$
- C.  $\frac{4}{3}$
- D. 4
- E. Not here

3. What part of the group of circles is shaded?

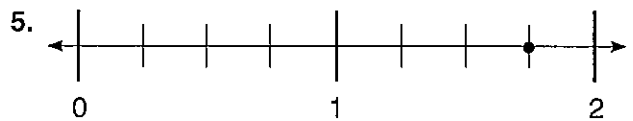


- A.  $\frac{7}{10}$
- B.  $\frac{7}{3}$
- C.  $\frac{10}{7}$
- D. 7
- E. Not here

In items 4 and 5, which number names the point shown on the number line?

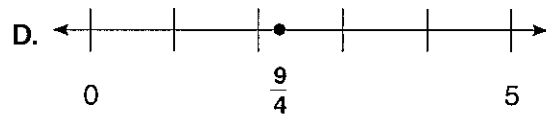
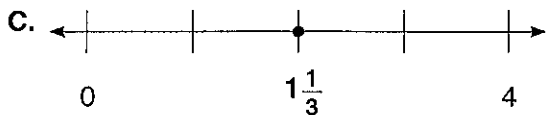
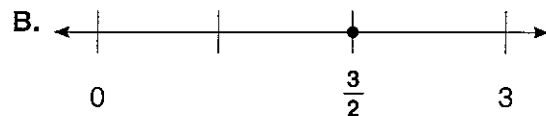


- A.  $\frac{1}{5}$
- B.  $\frac{1}{6}$
- C.  $\frac{1}{7}$
- D.  $\frac{2}{7}$
- E. Not here



- A.  $\frac{3}{4}$
- B.  $\frac{7}{8}$
- C.  $1\frac{7}{8}$
- D.  $1\frac{3}{4}$
- E. Not here

6. On which number line is the point correctly named?



- E. Not here

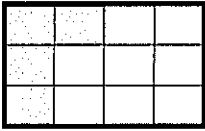
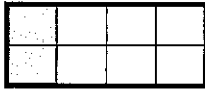
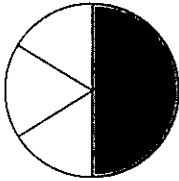
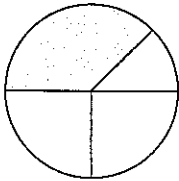
**Part 2**

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7. Which list shows all factors of 18?  
A. 2, 3, 6, 9                      B. 1, 2, 3, 6, 9, 18  
C. 1, 2, 6, 9, 18                  D. 18, 36, 54, ...  
E. Not here
8. Which is *not* a multiple of 35?  
A. 5              B. 35              C. 70              D. 105  
E. Not here
9. Which is the greatest common factor (GCF) of 24 and 36?  
A. 6              B. 12              C. 18              D. 72  
E. Not here
10. Which is the least common multiple (LCM) of 20 and 24?  
A. 4              B. 20              C. 120              D. 480  
E. Not here
11. Which is a prime number?  
A. 1              B. 2              C. 25              D. 51  
E. Not here
12. Which is the prime factorization of 60?  
A.  $5 \times 12$                               B.  $2 \times 2 \times 15$   
C.  $2 \times 3 \times 5$                           D.  $2 \times 2 \times 3 \times 5$   
E. Not here

**Part 3**

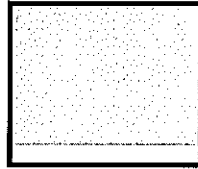
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13. Which diagram shows  $\frac{1}{4}$  shaded?  
A.               B.               C.               D.   
E. Not here
14. Which is equivalent to  $\frac{8}{1}$ ?  
A. 8              B.  $\frac{1}{8}$               C.  $\frac{8}{8}$               D. 64              E. Not here
15. Which is equivalent to  $\frac{4}{5}$ ?  
A.  $\frac{16}{20}$               B.  $\frac{9}{10}$               C.  $\frac{4}{10}$               D.  $\frac{8}{15}$   
E. Not here
16. Which shows  $\frac{12}{18}$  in simplest form?  
A.  $\frac{2}{18}$               B.  $\frac{6}{9}$               C.  $\frac{1}{3}$               D.  $\frac{2}{3}$   
E. Not here
17. Which shows an improper fraction for  $3\frac{5}{8}$ ?  
A.  $\frac{120}{8}$               B.  $\frac{29}{8}$               C.  $\frac{24}{8}$               D.  $\frac{15}{8}$   
E. Not here
18. Which shows the mixed number for  $\frac{9}{4}$  in simplest form?  
A. 2              B.  $1\frac{5}{4}$               C.  $4\frac{1}{2}$               D.  $2\frac{1}{4}$   
E. Not here

Part 4

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19. Which tells about how much is shaded?



- A. less than  $\frac{1}{4}$       B. about  $\frac{1}{2}$       C. about  $\frac{2}{3}$       D. more than  $\frac{3}{4}$   
E. Not here

20. Which is correct?

- A.  $\frac{2}{3} > \frac{3}{4}$       B.  $2\frac{1}{2} < 1\frac{9}{10}$       C.  $\frac{12}{18} < \frac{5}{6}$       D.  $\frac{3}{5} > \frac{5}{8}$   
E. Not here

21. Which of these numbers is the greatest, or are they all equal?

$$2\frac{2}{6}, 2\frac{1}{3}, \frac{7}{3}$$

- A.  $2\frac{2}{6}$       B.  $2\frac{1}{3}$       C.  $\frac{7}{3}$       D. They are all equal.

22. Which is correct?

- A.  $\frac{2}{5} > \frac{2}{4} > \frac{2}{3}$       B.  $\frac{11}{12} < \frac{7}{12} < \frac{5}{12}$       C.  $\frac{1}{2} > \frac{1}{3} > \frac{1}{4}$       D.  $\frac{6}{10} < \frac{9}{20} < \frac{1}{5}$

E. Not here

23. Which means the same as  $\frac{3}{4}$ ?

- A.  $3 \times 4$       B.  $4 \div 3$       C.  $3 \div 4$       D. 3.4      E. Not here

24. Which shows  $\frac{4}{5}$  as a decimal?

- A. 0.4      B. 0.8      C. 1.2      D. 1.25      E. Not here