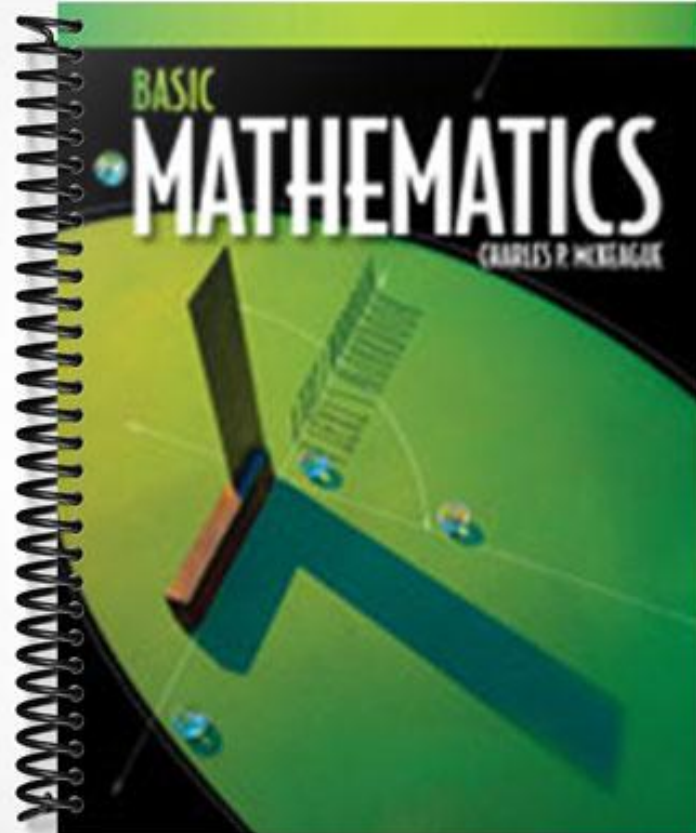


TEST BANK



ch 02.01

Student: _____

1. Name the numerator of the fraction.

$$\frac{1}{9}$$

- A. 9
- B. 1

2. Name the denominator of the fraction.

$$\frac{3}{5}$$

- A. 3
- B. 5

3. What number is missed in the following table?

NUMERATOR	DENOMINATOR	FRACTION
7	8	$\frac{7}{8}$
?	7	$\frac{3}{7}$
x	y	$\frac{x}{y}$

- A. 3
- B. x
- C. 7

4. **Number of Children**

If there are 3 girls in a family with 7 children, then we say that $\frac{3}{7}$ of the children are girls. If there are

6 girls in a family with 7 children, what fraction of the children are girls?

A. $\frac{6}{7}$

B. 6

C. 7

D. $\frac{7}{7}$

E. $\frac{7}{6}$

5. **Number of Students**

In a class of 53 students, 21 are freshmen and 32 are juniors. What fraction of the students are freshmen?

A. $\frac{53}{21}$

B. $\frac{21}{53}$

C. $\frac{53}{32}$

D. $\frac{32}{53}$

6. Divide the numerator and the denominator of the following fraction by 2, to obtain an equivalent fraction.

$$\frac{10}{36}$$

A. $\frac{6}{19}$

B. $\frac{5}{18}$

C. $\frac{10}{18}$

D. $\frac{5}{36}$

7. Divide the numerator and the denominator of the following fraction by 3, to obtain an equivalent fraction.

$$\frac{21}{24}$$

A. $\frac{8}{9}$

B. $\frac{21}{8}$

C. $\frac{7}{24}$

D. $\frac{7}{8}$

8. Write the following fraction as an equivalent fraction with denominator 6.

$$\frac{7}{2}$$

A. $\frac{7}{6}$

B. $\frac{21}{6}$

C. $\frac{14}{6}$

D. $\frac{42}{6}$

9. Write the following fraction as an equivalent fraction with denominator 6.

$$\frac{65}{30}$$

A. $\frac{39}{6}$

B. $\frac{14}{6}$

C. $\frac{26}{6}$

D. $\frac{13}{6}$

10. Write the following fraction as an equivalent fraction with denominator 12.

$$\frac{1}{3}$$

A. $\frac{12}{12}$

B. $\frac{4}{12}$

C. $\frac{6}{12}$

D. $\frac{1}{12}$

11. Write the following fraction as an equivalent fraction with denominator $12x$.

$$\frac{17}{6}$$

A. $\frac{204x}{12x}$

B. $\frac{17}{12x}$

C. $\frac{17x}{12x}$

D. $\frac{34x}{12x}$

E. $\frac{34}{12x}$

12. Write the following fraction as an equivalent fraction with denominator $24a$.

$$\frac{17}{8}$$

A. $\frac{51}{24a}$

B. $\frac{18a}{24a}$

C. $\frac{17a}{24a}$

D. $\frac{51a}{24a}$

E. $\frac{17}{24a}$

13. Write $\frac{2}{20}$ as an equivalent fraction with denominator 4,180.

A. $\frac{418}{4,180}$

B. $\frac{423}{4,180}$

C. $\frac{428}{4,180}$

D. $\frac{417}{4,180}$

E. $\frac{420}{4,180}$

14. Find the missing term so that the two fractions are equal.

$$\frac{1}{3} = \frac{?}{294}$$

- A. 98
- B. 103
- C. 97
- D. 108
- E. 95

15. Find the missing term so that the two fractions are equivalent.

$$\frac{2}{9} = \frac{14}{?}$$

- A. 47
- B. 51
- C. 55
- D. 59
- E. 63

16. Find the missing term so that the two fractions are equivalent.

$$\frac{5}{4} = \frac{?}{12x}$$

- A. x
- B. $15x$
- C. 21
- D. $9x$
- E. 15

17. Simplify by dividing the numerator by the denominator.

$$\frac{18}{1}$$

- A. 0
- B. 1
- C. 18

18. Simplify by dividing the numerator by the denominator.

$$\frac{17}{17}$$

- A. 0
- B. 17
- C. 1

19. Name the denominator of the fraction.

6

- A. 1
- B. -2
- C. 6
- D. 7
- E. -1

20. Name the numerator of the fraction.

10

- A. 9
- B. 11
- C. 1
- D. 12
- E. 10

21. Simplify by dividing the numerator by the denominator.

$$\frac{30}{5}$$

A. 6

B. 5

C. $\frac{6}{5}$

D. $\frac{5}{30}$

E. $\frac{1}{6}$

22. Simplify by dividing the numerator by the denominator.

$$\frac{24}{8}$$

A. 8

B. $\frac{1}{3}$

C. $\frac{3}{8}$

D. 3

E. $\frac{8}{24}$

23. Find the missing term so that the two fractions are equal.

$$\frac{6}{19} = \frac{?}{1,653}$$

24. Find the missing term so that the two fractions are equivalent.

$$\frac{7}{3} = \frac{35}{\underline{\quad}}$$

25. Name the denominator of the fraction.

$$\frac{1}{6}$$

26. Simplify by dividing the numerator by the denominator.

$$\frac{14}{1}$$

27. Simplify by dividing the numerator by the denominator.

$$\frac{27}{27}$$

28. Name the denominator of the fraction.

$$14$$

29. Name the numerator of the fraction.

$$3$$

30. Simplify by dividing the numerator by the denominator.

$$\frac{12}{3}$$

31. Simplify by dividing the numerator by the denominator.

$$\frac{12}{6}$$

32. Determine whether the following fractions are proper or improper.

Choose the correct letter for each question.

1. improper $\frac{5}{13}$ _____

2. proper $\frac{5}{3}$ _____

33. **Number of Children**

If there are 2 girls in a family with 5 children, then we say that $\frac{2}{5}$ of the children are girls. If there are

1 girl in a family with 5 children, what fraction of the children are girls?

34. **Number of Students**

In a class of 53 students, 21 are freshmen and 32 are juniors. What fraction of the students are freshmen?

35. Write the equivalent fraction with denominator 24 for the fraction $\frac{3}{8}$.

36. Divide the numerator and the denominator of the following fraction by 2, to obtain an equivalent fraction. Enter as an improper fraction where applicable.

$$\frac{2}{4}$$

37. Divide the numerator and the denominator of the following fraction by 3, to obtain an equivalent fraction. Enter as an improper fraction where applicable.

$$\frac{3}{48}$$

38. Write the following fraction as an equivalent fraction with denominator 6. Enter as an improper fraction where applicable.

$$\frac{5}{3}$$

39. Write the following fraction as an equivalent fraction with denominator 6. Enter as an improper fraction where applicable.

$$\frac{92}{24}$$

40. Write the following fraction as an equivalent fraction with denominator 12. Enter as an improper fraction where applicable.

$$\frac{1}{3}$$

41. Write the following fraction as an equivalent fraction with denominator $12x$.

$$\frac{5}{4}$$

42. Write the following fraction as an equivalent fraction with denominator $24a$. Enter as an improper fraction where applicable.

$$\frac{11}{4}$$

43. Write $\frac{1}{3}$ as an equivalent fraction with denominator 711. Enter as an improper fraction where applicable.

44. Choose the correct statement(s).

a. $\frac{5}{9} = \frac{5+3}{9+3}$

b. $\frac{5}{9} = \frac{5 \cdot 3}{9 \cdot 3}$

Answer *a* or *b* or *both*.

45. Choose the correct statement(s).

a. $\frac{8}{9} = \frac{8+z}{9+z}$ for any value of z

b. $\frac{8}{9} = \frac{8 \cdot z}{9 \cdot z}$ for any nonzero value of z

Answer *a* or *b* or *both*.

46. Find the missing term so that the two fractions are equivalent.

$$\frac{3}{5} = \frac{\quad}{35x}$$

ch 02.01 Key

1. Name the numerator of the fraction.

$$\frac{1}{9}$$

- A. 9
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2. Name the denominator of the fraction.

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26. Simplify by dividing the numerator by the denominator.

$$\frac{14}{1}$$

14

27. Simplify by dividing the numerator by the denominator.

$$\frac{27}{27}$$

1

28. Name the denominator of the fraction.

$$14$$

1

29. Name the numerator of the fraction.

$$3$$

3

30. Simplify by dividing the numerator by the denominator.

$$\frac{12}{3}$$

$$\underline{4}$$

31. Simplify by dividing the numerator by the denominator.

$$\frac{12}{6}$$

$$\underline{2}$$

32. Determine whether the following fractions are proper or improper.

Choose the correct letter for each question.

1. improper

$$\frac{5}{13} \quad \underline{2}$$

2. proper

$$\frac{5}{3} \quad \underline{1}$$

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If there are 2 girls in a family with 5 children, then we say that $\frac{2}{5}$ of the children are girls. If there are

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37. Divide the numerator and the denominator of the following fraction by 3, to obtain an equivalent fraction. Enter as an improper fraction where applicable.

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$$\frac{4}{12}$$

41. Write the following fraction as an equivalent fraction with denominator $12x$.

$$\frac{5}{4}$$

$$15 \cdot \frac{x}{(12x)}$$

42. Write the following fraction as an equivalent fraction with denominator $24a$. Enter as an improper fraction where applicable.

$$\frac{11}{4}$$

$$66 \cdot \frac{a}{(24a)}$$

43. Write $\frac{1}{3}$ as an equivalent fraction with denominator 711. Enter as an improper fraction where applicable.

$$\frac{237}{711}$$

44. Choose the correct statement(s).

a. $\frac{5}{9} = \frac{5+3}{9+3}$

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Answer *a* or *b* or *both*.

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Answer *a* or *b* or *both*.

b

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$$\frac{3}{5} = \frac{\quad}{35x}$$

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