

Chapter 2 TECM 118 Practice Test

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Write the mixed number as an improper fraction.

1) $8\frac{3}{7}$ 1) _____

- A) $\frac{56}{3}$ B) $\frac{59}{3}$ C) $\frac{56}{7}$ D) $\frac{59}{7}$

2) $16\frac{7}{8}$ 2) _____

- A) $\frac{23}{8}$ B) $\frac{135}{16}$ C) $\frac{135}{128}$ D) $\frac{135}{8}$

Write the improper fraction as a mixed or whole number.

3) $\frac{34}{3}$ 3) _____

- A) $\frac{1}{3}$ B) $10\frac{1}{7}$ C) $11\frac{1}{3}$ D) $12\frac{1}{3}$

4) $\frac{38}{5}$ 4) _____

- A) $7\frac{4}{5}$ B) $7\frac{3}{5}$ C) $5\frac{3}{7}$ D) $6\frac{5}{3}$

Simplify the fraction.

5) $\frac{21}{35}$ 5) _____

- A) $\frac{3}{7}$ B) $\frac{7}{5}$ C) $\frac{3}{5}$ D) $\frac{21}{35}$

6) $\frac{39}{52}$ 6) _____

- A) $\frac{13}{4}$ B) $\frac{39}{52}$ C) $\frac{3}{13}$ D) $\frac{3}{4}$

Write the fraction as an equivalent fraction with the indicated denominator.

7) $\frac{11}{17} = \frac{?}{289}$ 7) _____

- A) $\frac{11}{289}$ B) $\frac{28}{289}$ C) $\frac{187}{289}$ D) $\frac{121}{289}$

8) $\frac{9}{5} = \frac{?}{50}$

8) _____

A) $\frac{90}{50}$

B) $\frac{5}{50}$

C) $\frac{450}{50}$

D) $\frac{9}{50}$

Compare the fractions.

9) $\frac{7}{18}, \frac{5}{6}$

9) _____

A) $\frac{5}{6} < \frac{7}{18}$

B) $\frac{7}{18} = \frac{5}{6}$

C) $\frac{7}{18} < \frac{5}{6}$

10) $\frac{1}{3}, \frac{1}{7}, \frac{1}{4}$

10) _____

A) $\frac{1}{7} < \frac{1}{3} < \frac{1}{4}$

B) $\frac{1}{7} < \frac{1}{4} < \frac{1}{3}$

C) $\frac{1}{4} < \frac{1}{7} < \frac{1}{3}$

D) $\frac{1}{3} < \frac{1}{4} < \frac{1}{7}$

Solve the problem.

11) A baseball team has played 7 games so far this season. The team won 2 games. What fraction of its games has the team lost? Simplify.

11) _____

A) $\frac{2}{9}$

B) $\frac{5}{7}$

C) $\frac{9}{2}$

D) $\frac{7}{5}$

Multiply. Simplify if possible.

12) $\frac{7}{9} \cdot \frac{1}{2}$

12) _____

A) $\frac{8}{11}$

B) $\frac{7}{11}$

C) $\frac{1}{18}$

D) $\frac{7}{18}$

13) $\frac{1}{10} \cdot \frac{5}{8}$

13) _____

A) $\frac{1}{16}$

B) $\frac{5}{80}$

C) $\frac{5}{13}$

D) $\frac{1}{3}$

14) $\frac{3}{4} \cdot \frac{3}{7} \cdot \frac{3}{10}$

14) _____

A) $\frac{27}{28}$

B) $\frac{9}{40}$

C) $\frac{27}{280}$

D) $\frac{15}{14}$

Solve the problem.

15) Greg's water bottle can hold $\frac{5}{7}$ L. When he starts on his bicycle race, his water bottle is $\frac{1}{3}$ full. How much water does he have?

15) _____

A) $\frac{5}{21}$ L

B) $\frac{5}{10}$ L

C) $\frac{6}{3}$ L

D) $\frac{6}{10}$ L

Divide. Simplify, if possible.

16) $8\frac{4}{5} \div 7$ 16) _____

A) $56\frac{28}{5}$

B) $1\frac{11}{35}$

C) $1\frac{9}{35}$

D) $8\frac{28}{5}$

17) $4\frac{2}{5} \div \frac{1}{5}$ 17) _____

A) 23

B) $20\frac{1}{2}$

C) 22

D) 21

18) $2\frac{3}{7} \div 1\frac{3}{8}$ 18) _____

A) $1\frac{59}{77}$

B) $1\frac{59}{76}$

C) $2\frac{59}{77}$

D) $1\frac{60}{77}$

19) $3\frac{6}{7} \div 9$ 19) _____

A) $\frac{2}{7}$

B) $\frac{4}{7}$

C) $\frac{3}{7}$

D) $\frac{1}{2}$

Solve the problem.

20) A technician has readings that take $\frac{2}{3}$ minute each to read and record. How many readings can be completed in 48 minutes? 20) _____

completed in 48 minutes?

A) 72 readings

B) 16 readings

C) 18 readings

D) 32 readings

Add. Simplify, if possible.

21) $\frac{3}{8} + \frac{3}{8}$ 21) _____

A) $\frac{2}{4}$

B) $\frac{3}{4}$

C) $\frac{2}{3}$

D) $\frac{4}{5}$

22) $\frac{3}{4} + \frac{3}{20}$ 22) _____

A) $\frac{1}{4}$

B) $\frac{3}{10}$

C) $\frac{9}{10}$

D) $\frac{3}{2}$

23) $\frac{1}{8} + \frac{1}{4} + \frac{1}{2}$ 23) _____

A) $\frac{7}{8}$

B) $\frac{13}{16}$

C) $\frac{1}{2}$

D) $\frac{3}{14}$

24) $12\frac{1}{4} + 10\frac{3}{8}$ 24) _____
 A) $12\frac{5}{8}$ B) $23\frac{5}{8}$ C) $22\frac{5}{8}$ D) $21\frac{5}{8}$

25) $5\frac{1}{4} + 1\frac{1}{8} + 3\frac{1}{4}$ 25) _____
 A) $9\frac{3}{8}$ B) $9\frac{3}{32}$ C) $9\frac{5}{8}$ D) $9\frac{3}{16}$

Solve the problem.

26) A layer of paint on a piece of wood has a thickness of $\frac{1}{12}$ inch. The thickness of the piece of wood is $\frac{1}{3}$ inch. What is the total thickness of the wood and the paint? 26) _____
 A) $\frac{5}{12}$ inch B) $\frac{2}{15}$ inch C) $\frac{1}{6}$ inch D) $\frac{5}{3}$ inches

Subtract. Simplify, if possible.

27) $\frac{5}{6} - \frac{1}{8}$ 27) _____
 A) $\frac{17}{24}$ B) $\frac{17}{3}$ C) $\frac{1}{12}$ D) $\frac{2}{3}$

28) $11\frac{1}{5} - 5\frac{4}{5}$ 28) _____
 A) $16\frac{2}{5}$ B) $15\frac{2}{5}$ C) $5\frac{2}{5}$ D) $5\frac{1}{5}$

29) $16\frac{1}{8} - 7\frac{1}{2}$ 29) _____
 A) $8\frac{1}{2}$ B) $9\frac{5}{8}$ C) $8\frac{5}{8}$ D) $9\frac{3}{8}$

30) $13\frac{1}{6} - 6\frac{7}{12}$ 30) _____
 A) $6\frac{7}{12}$ B) $6\frac{5}{12}$ C) $6\frac{13}{18}$ D) $7\frac{7}{12}$

Solve the problem.

31) Three partners share the ownership of a sailboat on Lake Michigan. One partner owns $\frac{13}{24}$ of the boat and the second owns $\frac{1}{12}$. How much of the boat does the third partner own? 31) _____
 A) $\frac{3}{8}$ B) $\frac{11}{24}$ C) $\frac{5}{12}$ D) $\frac{1}{2}$

Simplify.

$$32) \frac{1}{4} \cdot \left(\frac{1}{4} + \frac{1}{2} \right) \cdot 16$$

A) 6

B) $1\frac{1}{2}$

C) 3

D) 2

32) _____

$$33) \frac{2}{3} - \frac{1}{6} \div \left(\frac{4}{5} - \frac{1}{2} \right)$$

A) $\frac{1}{9}$

B) $\frac{1}{24}$

C) $\frac{5}{3}$

D) $\frac{1}{8}$

33) _____

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Answer Key

- 1) D
- 2) D
- 3) C
- 4) B
- 5) C
- 6) D
- 7) C
- 8) A
- 9) C
- 10) B
- 11) B
- 12) D
- 13) A
- 14) C
- 15) A
- 16) C
- 17) C
- 18) A
- 19) C
- 20) A
- 21) B
- 22) C
- 23) A
- 24) C
- 25) C
- 26) A
- 27) A
- 28) C
- 29) C
- 30) A
- 31) A
- 32) C
- 33) A