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**MMS Math 7 Ch 4 Rational Numbers Test Review**

Indicate the answer choice that best completes the statement or answers the question.

Write each fraction or mixed number as a decimal. Use bar notation if the decimal is a repeating decimal.

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

- a. 0.14
- b.  $0.9\bar{3}$
- c. 1.0714285714
- d.  $3.\overline{142857}$

2.  $3\frac{4}{5}$

- a. 7.6
- b. 3.2631578947
- c. 3.95
- d. 3.8

3. Write  $\frac{1}{3}$  as a decimal. Use bar notation if the decimal is a repeating decimal.

- a. 0.333
- b. 1.333
- c.  $0.\bar{3}$
- d. 0.33

Write each decimal as a fraction in simplest form.

4. 0.47

- a.  $\frac{47}{100}$
- b. 47
- c.  $\frac{47}{1000}$
- d.  $\frac{47}{10}$

5. 0.45

- a.  $\frac{9}{20}$
- b.  $\frac{9}{200}$
- c.  $\frac{20}{9}$
- d.  $\frac{9}{2}$

Replace each  $\bigcirc$  with  $<$ ,  $>$ , or  $=$  to make a true sentence.

6.  $\frac{4}{10} \bigcirc \frac{10}{14}$

- a.  $>$
- b.  $=$
- c.  $<$

7.  $-2\frac{1}{3} \bigcirc -2\frac{2}{3}$

- a.  $>$
- b.  $=$
- c.  $<$

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8.  $8\frac{3}{11} \bigcirc 8\frac{3}{5}$

- a. >
- b. =
- c. <

*Order the set of numbers from least to greatest.*

9.  $\frac{31}{100}$ , 0.44, 0.38

- a. 0.44, 0.38,  $\frac{31}{100}$
- b.  $\frac{31}{100}$ , 0.44, 0.38
- c.  $\frac{31}{100}$ , 0.38, 0.44
- d. 0.38,  $\frac{31}{100}$ , 0.44

10.  $\frac{77}{100}$ , 0.84, 81%

- a. 0.84, 81%,  $\frac{77}{100}$
- b.  $\frac{77}{100}$ , 81%, 0.84
- c.  $\frac{77}{100}$ , 0.84, 81%
- d. 81%,  $\frac{77}{100}$ , 0.84

11. 0.45, -0.49,  $\frac{8}{25}$

- a. -0.49,  $\frac{8}{25}$ , 0.45
- b. 0.45,  $\frac{8}{25}$ , -0.49
- c. -0.49, 0.45,  $\frac{8}{25}$
- d.  $\frac{8}{25}$ , -0.49, 0.45

*Add or subtract. Write in simplest form.*

12.  $\frac{4}{5} + \frac{1}{5}$

- a. 1
- b.  $\frac{1}{2}$
- c.  $\frac{3}{5}$
- d.  $\frac{4}{25}$

13.  $\frac{5}{9} + (-\frac{1}{9})$

- a.  $\frac{4}{9}$
- b.  $\frac{4}{9}$
- c.  $\frac{2}{3}$
- d.  $\frac{2}{3}$

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14.  $\frac{5}{8} - \frac{3}{8}$

a.  $\frac{15}{64}$

b.  $\frac{1}{2}$

c.  $\frac{1}{4}$

d. 1

17.  $-\frac{5}{8} + \frac{4}{5}$

a.  $-\frac{7}{40}$

b.  $\frac{3}{20}$

c.  $\frac{7}{40}$

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

15.  $-\frac{2}{5} - \frac{1}{5}$

a.  $\frac{1}{5}$

b.  $-\frac{1}{5}$

c.  $\frac{3}{5}$

d.  $-\frac{3}{5}$

18.  $\frac{1}{3} - \frac{3}{4}$

a.  $\frac{5}{12}$

b.  $-1\frac{1}{4}$

c.  $-\frac{5}{12}$

d.  $\frac{1}{4}$

16.  $\frac{4}{5} + \frac{5}{7}$

a.  $1\frac{18}{35}$

b.  $\frac{4}{7}$

c.  $\frac{3}{4}$

d.  $\frac{9}{35}$

19.  $-\frac{2}{3} - \frac{5}{6}$

a.  $2\frac{1}{3}$

b.  $-1\frac{1}{2}$

c.  $-\frac{1}{6}$

d.  $-1\frac{1}{6}$

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20. Of the burgers sold yesterday at Merlin's shop,  $11\frac{3}{7}$  were veggie burgers and  $9\frac{3}{7}$  were turkey burgers. What fraction of the burgers sold were veggie burgers and turkey burgers?
- a.  $20\frac{6}{7}$   
b. 2  
c.  $21\frac{6}{7}$   
d. 20

21. Yesterday, Raphael walked  $2\frac{1}{3}$  miles from the swimming pool to the ice cream stand and  $2\frac{7}{8}$  miles from the ice cream stand back home. How far did Raphael walk in all?
- a.  $6\frac{17}{24}$  miles  
b.  $2\frac{10}{17}$  miles  
c.  $\frac{13}{24}$  miles  
d.  $5\frac{5}{24}$  miles

22. Brittney bought a melon that weighed  $11\frac{2}{3}$  ounces and a plum that weighed  $5\frac{2}{7}$  ounces. How much more did the melon weigh than the plum?
- a.  $11\frac{2}{3}$  ounces  
b.  $6\frac{8}{21}$  ounces  
c.  $16\frac{4}{21}$  ounces  
d.  $16\frac{2}{5}$  ounces

23. An car can hold  $8\frac{1}{4}$  gallons of fuel. It contains  $4\frac{5}{6}$  gallons of fuel. How much more fuel is needed to fill the car?
- a.  $13\frac{1}{12}$   
b.  $4\frac{5}{12}$   
c.  $3\frac{7}{12}$   
d.  $3\frac{5}{12}$

*Multiply. Write in simplest form.*

24.  $\frac{5}{9} \times \frac{1}{2}$
- a.  $\frac{10}{9}$   
b. 1  
c.  $\frac{9}{10}$   
d.  $\frac{5}{18}$

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25.  $\frac{9}{10} \times \frac{5}{7}$

a.  $\frac{50}{63}$

b.  $\frac{9}{14}$

c.  $5\frac{5}{17}$

d.  $1\frac{13}{50}$

28.  $5\frac{3}{7} \times 5\frac{1}{2}$

a.  $\frac{7}{209}$

b.  $\frac{76}{77}$

c.  $29\frac{6}{7}$

d.  $1\frac{1}{76}$

26.  $-\frac{1}{5}(-\frac{2}{5})$

a.  $\frac{4}{15}$

b. 2

c.  $\frac{1}{2}$

d.  $\frac{2}{25}$

29.  $4\frac{2}{5}(-3\frac{3}{4})$

a.  $-1\frac{13}{75}$

b.  $\frac{75}{88}$

c.  $-\frac{2}{33}$

d.  $-16\frac{1}{2}$

27.  $2\frac{2}{5} \times \frac{1}{3}$

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

b.  $\frac{4}{5}$

c.  $7\frac{1}{5}$

d.  $1\frac{1}{4}$

*Divide. Write in simplest form.*

30.  $\frac{7}{13} \div \frac{7}{17}$

a.  $\frac{210}{221}$

b.  $1\frac{4}{13}$

c.  $\frac{13}{17}$

d.  $\frac{49}{221}$

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31.  $\frac{1}{10} \div \frac{6}{19}$

a.  $\frac{19}{60}$

b.  $\frac{79}{190}$

c.  $\frac{3}{95}$

d.  $3\frac{3}{19}$

32.  $5\frac{5}{6} \div \frac{5}{19}$

a.  $\frac{6}{133}$

b.  $1\frac{61}{114}$

c.  $22\frac{1}{6}$

d.  $6\frac{11}{114}$

33.  $3\frac{5}{8} \div 5\frac{1}{10}$

a.  $18\frac{39}{80}$

b.  $1\frac{59}{145}$

c.  $\frac{145}{204}$

d.  $8\frac{29}{40}$

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**Answer Key**

- |       |       |
|-------|-------|
| 1. c  | 27. b |
| 2. d  | 28. c |
| 3. c  | 29. d |
| 4. a  | 30. b |
| 5. a  | 31. a |
| 6. c  | 32. c |
| 7. a  | 33. c |
| 8. c  |       |
| 9. c  |       |
| 10. b |       |
| 11. a |       |
| 12. a |       |
| 13. b |       |
| 14. c |       |
| 15. d |       |
| 16. a |       |
| 17. c |       |
| 18. c |       |
| 19. b |       |
| 20. a |       |
| 21. d |       |
| 22. b |       |
| 23. d |       |
| 24. d |       |
| 25. b |       |
| 26. d |       |