

GMAT Fractions Practice Test 8

1. X is what percent greater than Y ?
2. X is what percent greater than Y percent of Z ?
3. Estimate the following fractions in terms of decimals, and note whether your estimate is greater than or less than the real value:

$$\frac{12}{37}$$

$$\frac{14}{90}$$

$$\frac{13}{51}$$

$$\frac{168}{839}$$

Question 4:

Harriet bought 120 fifty dollar government savings bonds at .8 of their face value, and gave $\frac{3}{4}$ of them to grandchildren, nephews, and nieces for Christmas presents. If she sold the remainder later at $\frac{9}{10}$ of their face value, what was the net amount she spent on the bonds?

- A. \$3350
- B. \$3000
- C. \$3450
- D. \$3500
- E. \$3250

Question 5:

Mary spends her monthly take-home pay as follows: $\frac{1}{3}$ goes to rent; $\frac{1}{6}$ to food and clothing; $\frac{1}{8}$ to savings; $\frac{1}{4}$ to miscellaneous expenses. The remaining \$300 she uses for entertainment. What is her monthly take-home pay?

- A. \$2000
- B. \$2500
- C. \$1800
- D. \$2100
- E. \$2400

Question 6:

Which of these is not equal to 0?

- A. $\frac{1}{3} + \frac{1}{5} - \frac{8}{15}$

- B. $\frac{2}{3} + \frac{1}{15} - \frac{11}{15}$
- C. $\frac{1}{5} + \frac{3}{10} - \frac{1}{2}$
- D. $\frac{1}{2} + \frac{1}{4} - \frac{7}{8}$
- E. $\frac{1}{2} + \frac{1}{5} - \frac{7}{10}$

Question 7:

Simplify:

$$\frac{5}{8} - \frac{4}{8} =$$

Question 8:

Simplify:

$$\frac{6x+8}{2x}$$

Question 9.

3) If $\left| \frac{y}{2} - \frac{1}{6} \right| < \frac{2}{3}$, then y could be all of the following EXCEPT

(A) $-\frac{4}{3}$

(B) $-\frac{5}{6}$

(C) 0

(D) $\frac{5}{6}$

(E) $\frac{4}{3}$

Question 10.

Simplify: $\frac{6a}{33a+21ab}$

Question 11.

Simplify: $\frac{10x+3y}{5xy} =$

Question 12.

$$1) \frac{1}{2 + \frac{1}{3}} + \frac{1}{2 - \frac{1}{3}} =$$

(A) 1

(B) $\frac{1}{12}$

(C) $\frac{9}{8}$

(D) 4

(E) $\frac{36}{35}$

Question 13.

$$4) \frac{1}{30} + \frac{1}{60} + \frac{1}{120} + \frac{1}{240} =$$

(A) $\frac{1}{15}$

(B) $\frac{1}{16}$

(C) $\frac{1}{450}$

(D) $\frac{2}{225}$

(E) $\frac{7}{480}$

Question 14.

1) The expression $\frac{12x+36}{4x+6}$ can be simplified to which of the following? (Select all choices that are true.)

[A] $\frac{3x+36}{x+6}$

[B] $\frac{3x+9}{x+6}$

[C] $\frac{x+3}{x+2}$

[D] $\frac{3}{2}$

[E] $\frac{12x+6}{4x+1}$

[F] $\frac{2x+6}{4x+1}$

[G] $\frac{x+3}{2x+1}$

[H] $\frac{6x+18}{2x+3}$

[I] 9

Question 15.

* "If $xy = 1$, what is the value of $\frac{2^{(x+y)^2}}{2^{(x-y)^2}}$?"

"(A) 2

"(B) 4

"(C) 8

"(D) 16

"(E) 32"

Question 16.

7) If $\frac{0.2}{0.3 - x} = 4$, then $x =$

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

(B) $\frac{1}{5}$

(C) $\frac{1}{10}$

(D) $\frac{3}{20}$

(E) $\frac{3}{40}$

Question 17.

1. $\frac{5}{6} + \frac{7}{10} = ?$

2. $\frac{10}{12} + \frac{2}{3} = ?$

3. $2\frac{3}{4} + \frac{5}{12} = ?$

4. $\frac{4}{7} + \frac{7}{8} = ?$

5. $\frac{3}{9} + 3\frac{3}{8} = ?$