GMAT Fractions Practice Test 4

Question 1

Is x between 0 and 1?

1. x is between -1/2 and 3/2
2. 3/4 is 1/4 more than x

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient to answer the question asked.
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient to answer the question asked.
(C) BOTH statements (1) and (2) TOGETHER are sufficient to answer the question asked, but NEITHER statement ALONE is sufficient to answer the question asked.
(D) EACH statement ALONE is sufficient to answer the question asked.
(E) Statements (1) and (2) TOGETHER are NOT sufficient to answer the question asked, and additional data specific to the problem are needed.

Question 2

Every day a certain bank calculates its average daily deposit for that calendar month up to and including that day. If on a randomly chosen day in June the sum of all deposits up to and including that day is a prime integer greater than 100, what is the probability that the average daily deposit up to and including that day contains fewer than 5 decimal places?

(A) 1/10
(B) 2/15
(C) 4/15
(D) 3/10
(E) 11/30

Question 3

If $d = (1)/[(2^3)(5^7)]$ is expressed as a terminating decimal, how many nonzero digits will d have?

(A) One
(B) Two
(C) Three
(D) Seven
(E) Ten

Question 4

1+0.0001/0.04+10

The value of the expression above is closest to which of the following?

(A) 0.0001
(B) 0.001
(C) 0.1
(D) 1
(E) 10

Question 5

Is x/y a terminating decimal?

1. x is a multiple of 2
2. y is a multiple of 3

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient to answer the question asked.
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient to answer the question asked.
(C) BOTH statements (1) and (2) TOGETHER are sufficient to answer the question asked, but NEITHER statement ALONE is sufficient to answer the question asked.
(D) EACH statement ALONE is sufficient to answer the question asked.
(E) Statements (1) and (2) TOGETHER are NOT sufficient to answer the question asked, and additional data specific to the problem are needed.

Question 6

John is set to receive two equated annual payments of $x each. He will receive the first of his payments two years from today. Which of the following expressions provides the present value of the two payments if John uses 7% p.a. rate to compute present value?

A. $\frac{(2.07)x}{(1.07)^2}$

B. $\frac{(2.07)x}{(1.07)^3}$

C. $\frac{(1.07^2+1)x}{(1.07)^3}$

D. $\frac{(2.07^2+1)x}{(1.07)^3}$

E. $\frac{x}{1.07} + \frac{x}{1.07^2}$

Question 7

$7\frac{5}{8} + 5\frac{3}{4} = ?$

- ○A) $12\frac{7}{8}$
- ○B) 14
- ○C) 13
- ○D) 12
- ○E) $13\frac{3}{8}$

Question 8

$$\frac{\frac{2}{6} * \frac{3}{2}}{\frac{7}{8} - \frac{1}{3}} = ?$$

- ○A) 13/15
- ○B) 12/13
- ○C) 11/12
- ○D) 17/18
- ○E) 10/13

Question 9

Which of the fractions below is the largest?

- ○A) 55/100
- ○B) 2/50
- ○C) 8/20
- ○D) 12/25
- ○E) 5/10

Question 10

Multiply the numerator of a positive, proper fraction by $\frac{3}{2}$.

Question 11

Add 1 to the numerator of a positive, proper fraction and subtract 1 from its denominator.

Question 12

Multiply both the numerator and denominator of a positive, proper fraction by $3\frac{1}{2}$.

Question 13

Multiply a positive, proper fraction by $\frac{3}{8}$.

Question 14

Divide a positive, proper fraction by $\frac{3}{13}$.

Question 15

Simplify: $\dfrac{10x}{5+x}$

Question 16

Simplify: $\dfrac{8(3)(x)^2(3)}{6x}$

Question 17

Simplify: $\dfrac{\frac{3}{5}+\frac{1}{3}}{\frac{2}{3}+\frac{2}{5}}$

Question 18

Simplify: $\dfrac{12ab^3 - 6a^2b}{3ab}$ (given that $ab \neq 0$)

Question 19

Put these fractions in order from least to greatest: $\frac{9}{17}$ $\frac{3}{16}$ $\frac{19}{20}$ $\frac{7}{15}$

Question 20

Lisa spends $\frac{3}{8}$ of her monthly paycheck on rent and $\frac{5}{12}$ on food. Her roommate, Carrie, who earns twice as much as Lisa, spends $\frac{1}{4}$ of her monthly paycheck on rent and $\frac{1}{2}$ on food. If the two women decide to donate the remainder of their money to charity each month, what fraction of their combined monthly income will they donate?