Fall, 2006 Test #3 Math 23

There are 4 points for each problem.

Note:

(1) This is a closed book, closed notes test. (2) The use of calculator is not permitted.

(3) Please turn off all the eletronic devices.

Problem 1. $3\frac{1}{4}$ is the same as

(A) 3.4 (B) 3.25 (C) 3.14 (D) 0.75 (E) None of these.

Problem 2. $-2 \cdot \frac{7}{8}$ is equal to

(A) $-\frac{7}{4}$ (B) $\frac{7}{4}$ (C) $\frac{4}{7}$ (D) $-\frac{4}{7}$ (E) None of these.

Problem 3. $-12-(-5)$ is equal to

(A) 17 (B) 7 (C) -7 (D) -17 (E) None of these.

Problem 4. $12-2[-8-2^4(-1)]$ is equal to

(A) -4 (B) 80 (C) 4 (D) None of these.

Problem 5. $80-56 \div 8$ is equal to

(A) -73 (B) 3 (C) 37 (D) 73 (E) None of these.

Problem 6. $-|-53|$ is equal to

(A) 53 (B) -53 (C) None of these.

Problem 7. The solution to the equation: $2x-2=6$

(A) $x=-2$ (B) $x=-4$ (C) $x=4$ (D) $x=2$ (E) None of these.

Problem 8. 12 less than twice the total T can be written in math expression as

(A) $2(T-12)$ (B) $2Tt-12$ (C) $12-2T$ (D) None of these.

Problem 9. The solution to the equation: $-(3x-3)=6(2x-7)$

(A) 3 (B) $x=\frac{39}{15}$ (C) $x=\frac{2}{3}$ (D) $x=-3$ (E) None of these.

Problem 10 $-\left(-\frac{2}{3}\right)^2$ is equal to

(A) $\frac{4}{6}$ (B) $-\frac{4}{6}$ (C) $-\frac{4}{9}$ (D) $\frac{4}{9}$ (E) None of these.

Problem 11 Simlify $\frac{10y}{15y}$, we get

(A) $\frac{2}{3}$ (B) $\frac{2y}{3}$ (C) $\frac{2}{3y}$ (D) None of these.

Problem 12 $4\frac{2}{5} \div 11$ is equal to

(A) 48.4 (B) $\frac{2}{5}$ (C) $8\frac{2}{5}$ (D) None of these.

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Problem 13 $\frac{4}{m} + \frac{2}{7}$
(A) $\frac{8}{7m}$ (B) $\frac{30}{7}$ (C) $\frac{28+2m}{7m}$ (D) $\frac{28}{2m}$ (E) None of these.
Problem 14 Given expression: $(-21) - 17$, the answer is
(A) -38 (B) 38 (C) -4 (D) None of these.
Problem 15. $34\frac{1}{9} - 13\frac{5}{6}$ is equal to
(A) $11\frac{13}{18}$ (B) $20\frac{5}{8}$ (C) $11\frac{-4}{18}$ (D) $-11\frac{4}{3}$ (E) None of these.
Problem 16 $78.1 - 7.81$ is equal to
(A) 70 (B) 70.29 (C) 71.80 (D) None of these.

Problem 17. $100 - 75 \div 25(3)$ is the same as:
(A) 91 (B) 3 (C) -3 (D) 90 (E) None of these.

Problem 18. $24 \div 6 + 2 \cdot 8 \div 4$ is the same as:
(A) 16 (B) 2.4 (C) 6 (D) 8 (E) None of these.

Problem 19 $-(\frac{3}{4})^2$ is equal to
(A) $-\frac{9}{16}$ (B) $-\frac{6}{8}$ (C) $\frac{6}{8}$ (D) $\frac{9}{16}$ (E) None of these.
Problem 20 $\frac{6+2x}{2+2x}$ is the same as:
(A) 3 (B) $\frac{3+x}{1+x}$ (C) $3 + x$ (D) None of these.

Problem 21 $\frac{11}{15}$ is the same as
(A) $0.7\overline{3}$ (B) 0.7 (C) $0.\overline{73}$ (D) None of these.

Problem 22. $(m^2 - m - 5) - (3m^2 + 2m - 8)$ is the same as
A. $-2m^2 + 3m - 3$ B. $2m^2 - 3m + 3$ (C) $-2m^2 - 3m + 3$ (D) None of these.

Problem 23 $(3x - 2)(x + 4)$ is the same as
(A) $3x^2 + 10x + 8$ (B) $3x^2 - 10x - 8$ (C) $3x^2 + 10x - 8$ (D) None of these.

Problem 24 $\frac{5}{12}$ is the same as
(A) $\frac{15n}{36n}$ (B) $\frac{15}{36n}$ (C) $\frac{15n}{36}$ (D) None of these.

Problem 25 $-\frac{26}{78}$ is the same as
(A) $-\frac{1}{3}$ (B) -3 (C) $\frac{1}{3}$ (D) None of these.
Problem 26 $6(t - 3) - 9(2 - t)$ is the same as
(A) $-3t$ (B) $15t - 36$ (C) $15t - 36$ (D) None of these.

Problem 27 Coupons A shopper used some 20-cents-off and some 40-cents-off

coupons at the supermarket to get a reduction of $\$2.60$ from her grocery bill. If she used a total of 8 coupons, and x represents the number of $20-$ cents coupons. Which of the following equation fit the description of the problem?

(A) $260 = 20x + 40(x - 8)$ (B) $260 = 20(x - 8) + 40x$ (C) $260 = 20x + 40(8 - x)$ (D) None of these.

Problem 28 $-8(7) - (4s)(7)$ is the same as

(A) $7(-8 - 4s)$ (B) $7(-8 + 4s)$ (C) $7(8 - 4s)$ (D) $-7(-8 + 4s)$ (E) None of these.

Problem 29 $-3(1 - y) - 5(2y - 6)$ is the same as

(A) $-7y - 33$ (B) $-7y + 27$ (C) $-13y - 33$ (D) $-7y - 33$ (D) None of these.

Problem 30 $(a^4)^2$ is the same as

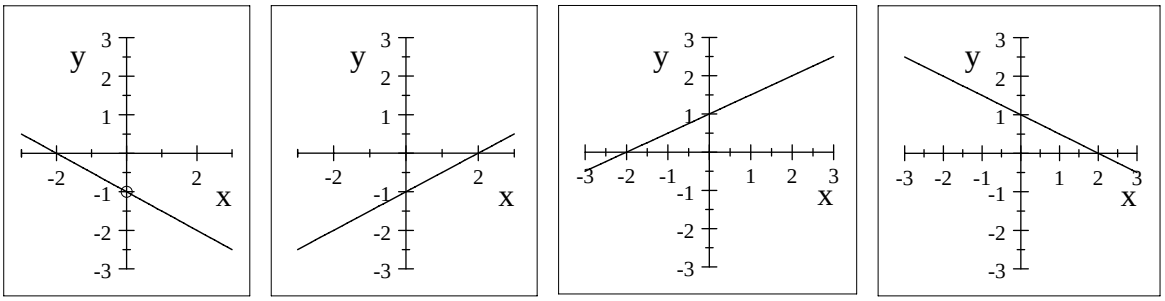
(A) a^6 (B) a^{16} (C) a^8 (D) None of these.

Problem 31 $\frac{5}{8} - \left(-\frac{1}{3}\right)$ is equal to

(A) $\frac{23}{24}$ (B) $-\frac{24}{23}$ (C) $-\frac{23}{24}$ (D) None of these.

Problem 32 Choose the graph that matches the line $y = \frac{1}{2}x + 1$

A B C D



E. None of these.

Problem 33 8.25% is the same as

(A) 0.825 (B) 8.25 (C) 0.0825 (D) None of these.

Problem 34 $33\frac{1}{3}\%$ is exactly the same as

(A) 0.33 (B) 11% (C) $\frac{1}{3}$ (D) None of these.

Problem 35 36% of 250 is

(A) 90 (B) 9 (C) None of these.

Problem 36 $\left(\frac{2}{3}\right)\left(-\frac{1}{16}\right)\left(-\frac{4}{5}\right)$ is the same as

(A) 30 (B) $\frac{1}{30}$ (C) $-\frac{1}{30}$ (D) -30 (E) None of these.

Problem 37 $66\frac{2}{3}\%$ of what number is 30? The number is

(A) 20 (B) 40 (C) 45 (D) None of these.

Problem 38 Choose the right percent. What percent of 800 is 250?

(A) 31.25% (B) 320% (C) $-\frac{15}{4}$ (D) None of these.

Problem 39 $3\sqrt{144} - \sqrt{49}$

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(A) 15 (B) 29 (C) None of these.

Problem 40 $\sqrt{5\sqrt{9+16}}$

(A) 11 (B) 5 (C) None of these.