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SAMPLE ASSESSMENT TEST

1. Find the result for the following equation:

— **5 + 15 x 2 - 3 x 2 =**

Select one:
a. 74
b. 34
c. 29
d. 59
e. None of the above.

2. Write as a fraction in the simplest form:

— **3 ¼ ÷ 16**

Select one:
a. $^{13}\!/_4$
b. 3 ¼
c. $^{13}\!/_{64}$
d. 52
e. None of the above.

3. Express as a percentage:

— **5 ½**

Select one:
a. 5.5%
b. 55%
c. 0.55%
d. 500%
e. None of the above.

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4. Express as a percentage: 0.025

Select one:

a. 0.25%

b. 2.5%

c. 25%

d. 250%

e. None of the above.

5. Express as a fraction: 285%

Select one:

a. $\frac{57}{20}$

b. $\frac{28.5}{10}$

c. $\frac{285}{100}$

d. $\frac{28}{10}$

e. None of the above.

6. Express as a fraction: 0.2

Select one:

a. $\frac{1}{50}$

b. $\frac{1}{500}$

c. $\frac{2}{100}$

d. $\frac{2}{5}$

e. None of the above.

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7. Express as a fraction: 0.75

— **5 + 15 x 2 - 3 x 2 =**

Select one:

a. ¼

b. ¼

c. ¾

d. $^{7.5}/_{10}$

e. None of the above.

8. Write as a fraction: 20%

Select one:

a. 0.2

b. 0.5

c. ¼

d. ⅕

e. None of the above.

9. 15% of 60 =

Select one:

a. 15

b. 6

c. 8

d. 20

e. None of the above.

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10. If x = 2 and y = -1, calculate $x^2 - 3y^2$

Select one:

a. 1

b. 7

c. -1

d. -3

e. None of the above.

11. Evaluate $(-3)^6$

Select one:

a. 18

b. 81

c. -729

d. 729

e. None of the above.

12. Evaluate:

—— $\frac{5}{8} \div \frac{-3}{16}$

Select one:

a. $\frac{15}{128}$

b. $\frac{-15}{128}$

c. $\frac{100}{3}$

d. -3 ⅓

e. None of the above.

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13. Evaluate:

— $(\frac{1}{9})^4$

Select one:

a. $\frac{1}{81}$

b. $-\frac{1}{81}$

c. $-\frac{1}{6561}$

d. $\frac{1}{27}$

e. None of the above.

14. Simplify:

— $\left(\frac{xy^4}{-3y^3}\right)$

Select one:

a. $\frac{xy}{3y}$

b. $\frac{-xy}{3}$

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

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

e. None of the above.

15. Simplify: $(-6)^{13} \div (-6)^{12}$

Select one:

a. 6

b. 1

c. 12

d. -12

e. None of the above.

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16. Write as a single power and express each answer with positive exponents: $(-3^4)^6$

Select one:

a. 3^{10}

b. 12^6

c. -3^{20}

d. 3^{20}

e. None of the above.

17. Write as a single power and express each answer with positive exponents: $(2f^{-5})^{-8}$

Select one:

a. $f^{-13}/16$

b. $f^{13}/16$

c. $f^{40}/16$

d. $f^{-13}/64$

e. None of the above.

18. Simplify: $(x^2 + xy - y^2) - (8y^2 - 3xy - x^2)$

Select one:

a. $-7x^2 + 4xy$

b. $4xy - 9y^2$

c. $2x^2 + 4xy - 9y^2$

d. $-2xy - 7x^2 - 9y^2$

e. None of the above.

19. Expand and simplify: $(x + 2)(x - 3)$

Select one:

a. $x^2 - x + 6$

b. $x^2 - 5x - 6$

c. $x^2 - 2x + 6$

d. $2x^2 - x + 6$

e. None of the above.

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20. Expand and simplify: $(-3x + 1)^2$

Select one:

a. $9x^2 + 1$

b. $9x^2 - 1$

c. $9x^2 + 6x + 1$

d. $9x^2 - 6x + 1$

e. None of the above.

21. Divide and simplify: $(2x^3y^2 - 5xy + x^2y) / xy$

Select one:

a. $2x^2y^2 - 5 + xy$

b. $2x^2y^2 - 5xy + x^2y$

c. $2x^3y - 5xy + x$

d. $2x^2y - 5 + x$

e. None of the above.

22. Factor $2d^2 + 22d + 56$

Select one:

a. $(2d + 14)(d + 4)$

b. $(d + 7)(2d + 8)$

c. $2(d + 7)(d - 4)$

d. $2(d + 7)(d + 4)$

e. None of the above.

23. Solve for g, where $g^2 - 5g - 14 = 0$

Select one:

a. 2, 7

b. -2. 7

c. 2, -7

d. -2, -7

e. None of the above.

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24. Solve for p, where $1 - 16p^2 = 0$

Select one:

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

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

c. $\frac{1}{16}$

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

e. None of the above.

25. Solve $-(2f)^0$

Select one:

a. 0

b. -0

c. 1

d. -1

e. None of the above.

26. How many solutions of x are there for solving the equation x = 8x3

Select one:

a. 1

b. 2

c. 3

d. 0

e. None of the above.

27. Solve for x, where $x^2 - x - 7 = 0$

Select one:

a. 1, 7

b. -1, 7

c. -1, -7

d. 1, -7

e. None of the above.

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Q1	C
Q2	C
Q3	E
Q4	B
Q5	A
Q6	E
Q7	C
Q8	D
Q9	E
Q10	A
Q11	D
Q12	D
Q13	E
Q14	B
Q15	E
Q16	E
Q17	E
Q18	C
Q19	E
Q20	D
Q21	D
Q22	D
Q23	B
Q24	D
Q25	D
Q26	E
Q27	E