SAT Math

Equivalent Expressions 1

Question #	ID
1.1	e312081b

$$(x+5)+(2x-3)$$

Which of the following is equivalent to the given expression?

A. $3x-2$

B. $3x+2$

C. $3x-8$

D. $3x+8$

1.2 1d3fee25

Which of the following is equivalent to $3(x+5)-6$?

A. $3x-3$

B. $3x-1$

C. $3x+9$

D. $15x-6$

1.3 60fdb4d4

Which expression is equivalent to $(2x^2-4)-(-3x^2+2x-7)$?

A. $5x^2-2x+3$

B. $5x^2+2x-3$

C. $-x^2-2x-11$

D. $-x^2+2x-11$

1.4 49efde89

The expression $2x^2+ax$ is equivalent to $x(2x+7)$ for some constant a. What is the value of a ?

A. 2

B. 3

C. 4

D. 7

Question #	ID
1.5	9ed9f54d

Which of the following is equivalent to $2(x^2-x)+3(x^2-x)$?

A. $5x^2-5x$

B. $5x^2+5x$

C. $5x$

D. $5x^2$

1.6	294db8ec

Which of the following is equivalent to $2x^3+4$?

A. $4(x^3+4)$

B. $4(x^3+2)$

C. $2(x^3+4)$

D. $2(x^3+2)$

1.7	6e06a0a7

Which of the following expressions is equivalent to $2a^2(a+3)$?

A. $5a^3$

B. $8a^5$

C. $2a^3+3$

D. $2a^3+6a^2$

1.8	df0ef054

$$(2x^3+3x)(x^3-2x)$$

Which of the following is equivalent to the expression above?

A. x^3+5x

B. $3x^3+x$

C. $2x^6-x^4-6x^2$

D. $3x^6-x^4-6x^2$

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Question #	ID
1.9	127b2759

Which expression is equivalent to $8 + d^2 + 3$?

A. $d^2 + 24$

B. $d^2 + 11$

C. $d^2 + 5$

D. $d^2 - 11$

1.10	fb96a5b3

Which of the following expressions is equivalent to $2(ab - 3) + 2$?

A. $2ab - 1$

B. $2ab - 4$

C. $2ab - 5$

D. $2ab - 8$

1.11	e597050f

Which expression is equivalent to $9x + 6x + 2y + 3y$?

A. $3x + 5y$

B. $6x + 8y$

C. $12x + 8y$

D. $15x + 5y$

1.12	1e8d7183

Which expression is equivalent to $256w^2 - 676$?

A. $(16w - 26)(16w - 26)$

B. $(8w - 13)(8w + 13)$

C. $(8w - 13)(8w - 13)$

D. $(16w - 26)(16w + 26)$

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1.13   0354c7de

$$5x + 15$$

Which of the following is equivalent to the given expression?

A. $5(x+3)$

B. $5(x+10)$

C. $5(x+15)$

D. $5(x+20)$

1.14   974d33dc

Which of the following expressions is equivalent to the sum of $(r^3 + 5r^2 + 7)$ and $(r^2 + 8r + 12)$?

A. $r^5 + 13r^3 + 19$

B. $2r^3 + 13r^2 + 19$

C. $r^3 + 5r^2 + 7r + 12$

D. $r^3 + 6r^2 + 8r + 19$

1.15   d4d513ff

Which expression is equivalent to $12x + 27$?

A. $12(9x + 1)$

B. $27(12x + 1)$

C. $3(4x + 9)$

D. $3(9x + 24)$

1.16   5dd53f73

Which expression is equivalent to $34x + 34y$?

A. $34xy$

B. $34(x + y)$

C. $68y$

D. $68x$

Question #	ID
1.17	4ac59df6

Which expression is equivalent to $(8yz)(y)(7z)$?

A. $56y^2z^2$

B. $56y^2z$

C. $56yz$

D. $16yz$

1.18 5d93c782

Which expression is equivalent to $x^2 + 3x - 40$?

A. $(x-4)(x+10)$

B. $(x-5)(x+8)$

C. $(x-8)(x+5)$

D. $(x-10)(x+4)$

1.19 0536ad4f

Which expression is equivalent to $20w - (4w + 3w)$?

A. $10w$

B. $13w$

C. $19w$

D. $21w$

1.20 67e866b5

Which expression is equivalent to $9x^2 + 7x^2 + 9x$?

A. $63x^4 + 9x$

B. $9x^2 + 16x$

C. $25x^5$

D. $16x^2 + 9x$

Question #	ID
1.21	70482e20

Which expression is equivalent to $11x^3 - 5x^3$?

A. $16x^3$

B. $6x^3$

C. $6x^6$

D. $16x^6$

1.22	50338a48

Which expression is equivalent to $15w^2 + 8w$?

A. $w(15w + 8)$

B. $8w(15w + 1)$

C. $15w^2(8w + 1)$

D. $23(w^2 + w)$

1.23	290cdc2c

Which expression is equivalent to $(x)^{\frac{1}{14}}$, where $x > 0$?

A. $\frac{1}{14} \cdot x$

B. $\sqrt[14]{x}$

C. $14 \cdot x$

D. $\sqrt{x^{14}}$

1.24	18c7c3e0

Which expression is equivalent to $13x^2 - 7x^2$?

A. $-91x^2$

B. $6x^2$

C. $20x^2$

D. $40x^2$

Question #	ID
1.25	8f82ad81

Which expression is equivalent to $4(x^2 + 6)$?

A. $4x^2 + 24$

B. $4x^2 + 10$

C. $4x^2 + 6$

D. $4x^2 - 2$