Date

- If x + y = 8 and x y = 5, what is the value of
 - a) -60 b) -40 c) 20
- d) 40
- e) 60
- If x + y = 8 and x y = 14, what is the value of
 - a) 90
- b) 98
- c) 108
- d) 112
- e) 130

e) 2

- If p 2 = q + 2, then q p =

- a) -4 b) 4 c) 0 d) -2
- 4. If $p = \frac{3q}{8}$ and $q = \frac{2n}{3}$, then p =

- a) $\frac{n}{4}$ b) $\frac{9n}{16}$ c) 4n d) $\frac{25n}{24}$ e) 2n
- If x y = 6 and z + y = 4, then x, expressed in 5. terms of z, equals
- a) -z b) 10-z c) z+2
- d) 5-z e) z-2
- If $x^2 = 4$, and $y^2 = 1$ then $(xy)^3 =$
 - a) -8
- b) 8
- c) 16
- d) 125
- e) It cannot be determined from the information given.

- If x + y = A and x y = B, then x =
- b) 2A + B
- c) 2y

d)
$$\frac{B-A}{2}$$
 e) $\frac{A+B}{2}$

e)
$$\frac{A+B}{2}$$

In the system of equations

$$x + y = 4$$

$$3x - y = 8$$

what is the value of x?

- a) -4 b) -2 c) 3 d) 4
- e) 6
- 9. If $\frac{6}{a} = 2$ and 3b + a = 15, then b =

 - a) 2 b) 3 c) 4 d) $4\frac{1}{3}$
- e) 5
- 10. If $x = \frac{y}{4}$ and 8x = 18, then y =

 - a) 9 b) 8 c) 7 d) 5
- e) 4
- 11. If x = 16 y and $\frac{y}{6} = 3$, then x =
 - a) -2 b) 2
- c) 4
- d) 7
- e) 13
- 12. If x + 4 = 12 and x + y = 16, then y =
 - a) 0
- b) 2 c) 4
- d) 8
- e) 12

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- 13. If 3a 5b = 12 and a = 3b, then a =
 - a) -6
- b) 3
- c) 6
- d) 9
- e) 12
- 14. If 4b c = 5 and 3b 2c = 7, then b + c =

 - a) -4 b) -2 c) 0
- d) 2
- e) 4
- 15. If 3x + 3y = 18 and 2x y = 6, then x + y =
 - a) 12
- b) 6
- c) 4
- d) 3
- e) 1
- 16. If 3x = 6y = 72, then x + y =
 - a) 4
- b) 8
- c) 18
- d) 24
- e) 36
- 17. If $x^2 y^2 = 1$ and x y = 1, then x + y = 1
 - a) -2 b) -1 c) 0
- d) 1
- e) 2
- 18. If a + b = 9 and a b = 3, then $a^2 + b^2 =$
 - a) 81
- b) 75
- c) 45
- d) 17
- e) 9
- 19. If x + y = 12 and x y = 8, then xy =
 - a) 12
- b) 18
- c) 20
- d) 24
- e) 36
- 20. If 5x + y = 9 and y = 4x, then x =
 - a) 1
- b) 2
- c) 3
- d) 4
- e) 5

- 21. If 3x + y = 9 and 1.5x = 3, then y =
 - a) 1
- b) 2
- c) 3
- d) 4
- e) 5
- 22. If x = 3y and y = 4z, what is the value of z when x = 600?
 - a) 25
- b) 30
- c) 40
- d) 50
- e) 60
- 23. If n is an odd number, which of the following must be even?
 - a) 5n

- b) n^2
- c) 2n-n
- d) n+2
- e) (n+1)(n-2)
- Five pounds of salt cost \$8. What is the cost of 7.5 pounds of salt?
 - a) \$10
- b) \$12
- c) \$15
- d) \$16
- e) \$20
- Nine cases of candy bars cost \$24. What is the cost of 13.5 cases of candy bars?
 - a) \$18
- b) \$30
- c) \$33
- d) \$36
- e) \$42

- 26. $\frac{2}{4} \times \frac{3}{6} \times \frac{4}{8} \times \frac{5}{10} =$
 - a) $\frac{1}{16}$ b) $\frac{1}{8}$ c) $\frac{1}{4}$ d) $\frac{1}{2}$

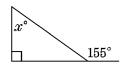
- e) 2

SAT Prep

Timed Activity: Systems of Equations

 $Name_{-}$

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- 27. In the figure, x =
 - a) 35
- b) 55
- c) 65
 - d) 70
- e) 75
- 28. On a number line, if the left end point of a segment is at -10 and the midpoint of the segment is at -4, then the right end point is at

 - a) -7 b) -2
- c) 0
- d) 2
- e) 4

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	SAT Prep	Timed	Activity:	Systems	of	Equations	Hopkins	11/20/2012
1. Answer: CodePath:	d EAS.SAT.B.E	.3				15. Answer: CodePath:	b EAS.SA	T.B.E.41
2. Answer: CodePath:	e EAS.SAT.B.E	.4				16. Answer: CodePath:	e EAS.SA	T.B.E.42
3. Answer: CodePath:	a EAS.SAT.B.E	.8				17. Answer: CodePath:	d EAS.SA	T.B.E.44
4. Answer: CodePath:	a EAS.SAT.B.E	.10				18. Answer: CodePath:	c EAS.SA	T.B.E.51
5. Answer: CodePath:	b EAS.SAT.B.E	.13				19. Answer: CodePath:	c EAS.SA	T.B.E.55
6. Answer: CodePath:	e EAS.SAT.B.E	.17				20. Answer: CodePath:	a EAS.SA	T.B.A.26
7. Answer: CodePath:	e EAS.SAT.B.E	.19				21. Answer: CodePath:	c EAS.SA	T.B.A.25
8. Answer: CodePath:	c EAS.SAT.B.E	.27				22. Answer: CodePath:	d EAS.SA	T.B.A.29
9. Answer: CodePath:	c EAS.SAT.B.E	.31				23. Answer: CodePath:	e EAS.SA	T.D.A.5
10. Answer: CodePath:	a EAS.SAT.B.E	.33				24. Answer: CodePath:	b EAS.SA	T.A.D.7
11. Answer: CodePath:	d EAS.SAT.B.E					25. Answer: CodePath:	d EAS.SA	T.A.D.8
12. Answer: CodePath:	d EAS.SAT.B.E	.37				26. Answer: CodePath:	a EAS.SA	T.A.B.62
13. Answer: CodePath:	d EAS.SAT.B.E	.39				27. Answer: CodePath:	c EAS.SA	T.C.B.12
14. Answer: CodePath:	b EAS.SAT.B.E	.40				28. Answer: CodePath:	d EAS.SA	T.C.J.5
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