

Name: _____

1. Which of the following equations is equivalent to $\frac{x}{8} = 7$?

- a) $x = \frac{7}{8}$ b) $\frac{x}{7} = \frac{1}{8}$ c) $4x = 14$ d) $\frac{x}{4} = 14$ e) $\frac{x}{16} = 14$
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2. Which of the following equations is equivalent to $2x + 13 = -5$?

- a) $2x + 11 = -3$ b) $2x + 5 = -13$ c) $x + 13 = -2.5$
d) $x = 2(-5 - 13)$ e) $x = \frac{-5 + 13}{2}$
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3. Solve for x given $x + 45 = 91$.

- a) -56 b) -46 c) 46 d) 56 e) 136
-

4. Solve for x given $x + \frac{2}{5} = \frac{3}{4}$.

- a) $-\frac{5}{9}$ b) $-\frac{7}{20}$ c) $\frac{7}{20}$ d) $\frac{5}{9}$ e) $\frac{23}{20}$
-

5. Solve for x : $3x + 31 = 76$

- a) $-\frac{107}{3}$ b) -15 c) 5 d) 15 e) $\frac{107}{3}$

6. Solve for x : $3(2x - 5) = 16$

- a) $\frac{1}{6}$ b) $\frac{6}{31}$ c) $\frac{7}{3}$ d) $\frac{11}{3}$ e) $\frac{31}{6}$
-

7. Solve for x given $3x + 4(2x + 3) = 5x + 2$.

- a) $-\frac{7}{3}$ b) $-\frac{5}{3}$ c) $-\frac{3}{5}$ d) $\frac{5}{6}$ e) $\frac{6}{5}$
-

8. Solve for x : $\frac{2x + 3}{4} = \frac{3x + 2}{5} + 1$

- a) $-\frac{13}{2}$ b) -3 c) $\frac{1}{6}$ d) 3 e) $\frac{13}{2}$
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9. Solve: $9y - 1 - 7y = 7 - 6y - 15$

- a) -4 b) $-\frac{7}{8}$ c) $-\frac{1}{2}$ d) 3 e) $\frac{11}{2}$
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10. What is the value of $5p$ if $7p - 2(3 - 4p) = 12p - (p + 4)$?

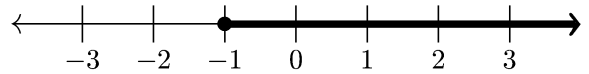
- a) $-\frac{2}{7}$ b) 0 c) $\frac{5}{2}$ d) 15 e) 30

11. What is the solution of $\frac{3}{5}t - \frac{1}{10} = t - \frac{5}{2}$?

- a) -11 b) -3 c) 0 d) 6 e) 9
-

12. The inequality represented by the graph is _____.

- a) $x \geq -1$ b) $x > -1$ c) $x > 1$
d) $x < -1$ e) $x \leq -1$



13. Solve: $2 + 3x > x - 4$

- a) $x > -3$ b) $x > -\frac{3}{2}$ c) $x > -1$ d) $x > -\frac{1}{2}$ e) $x > 1$
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14. Solve: $3(3x + 2) > 2(x + 8)$

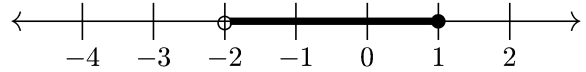
- a) $x > \frac{2}{7}$ b) $x > \frac{6}{7}$ c) $x > \frac{10}{7}$ d) $x > 1$ e) $x > 2$
-

15. Solve: $\frac{1}{3}(6x + 24) - 20 > -\frac{1}{4}(12x - 72)$

- a) $x < 0$ b) $x < 5$ c) $x > -1$ d) $x > 2$ e) $x > 6$

16. Which compound inequality is represented by the given graph?

- a) $-2 < x \leq -1$ b) $-2 \leq x \leq 1$
c) $-2 \leq x < 1$ d) $-2 < x < 1$
e) $-2 < x \leq 1$



17. Solve: $2x - 23 \leq 19$

- a) $x \geq 21$ b) $x \leq -2$ c) $x \geq -2$ d) $x \leq 21$ e) $x \leq 2$

18. Solve: $7x - 26 > 3(3x - 2)$

- a) $x > -16$ b) $x < -10$ c) $x > -10$ d) $x < -16$ e) $x > -14$

19. After Laurel added 38 to her number she had a total of 112. What was her number?

- a) -150 b) -74 c) 74 d) 84 e) 150

20. Seventeen more than three times Marnie's number is eighty. What is Marnie's number?

- a) $\frac{80}{17}$ b) $\frac{29}{3}$ c) 21 d) $\frac{73}{3}$ e) $\frac{97}{3}$

21. The difference of two numbers is 12. When twice the larger number is subtracted from five times the smaller number, the result is -9 . What is the larger of the two numbers?
- a) -11 b) 1 c) 5 d) 17 e) 19

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22. A two-digit number is 6 times the sum of its digits. Two times the units digit is three more than the tens digit. Find the units digit.
- a) 2 b) 3 c) 4 d) 5 e) 6

Math 9 Review #3 Name: 6/12/2013

1.
Answer: d
CodePath: EAS.CM2.E.A.1

2.
Answer: b
CodePath: EAS.CM2.E.A.5

3.
Answer: c
CodePath: EAS.CM2.E.A.9

4.
Answer: c
CodePath: EAS.CM2.E.A.17

5.
Answer: d
CodePath: EAS.CM2.E.A.29

6.
Answer: e
CodePath: EAS.CM2.E.A.41

7.
Answer: b
CodePath: EAS.CM2.E.A.49

8.
Answer: a
CodePath: EAS.CM2.E.A.53

9.
Answer: b
CodePath: EAS.MMA.I.A.29

10.
Answer: c
CodePath: EAS.MMA.I.A.41

11.
Answer: d
CodePath: EAS.MMA.I.A.45

12.
Answer: a
CodePath: EAS.MMA.I.E.1

13.
Answer: a
CodePath: EAS.MMA.I.E.13

14.
Answer: c
CodePath: EAS.MMA.I.E.17

15.
Answer: e
CodePath: EAS.MMA.I.E.21

16.
Answer: e
CodePath: EAS.MMA.I.E.31

17.
Answer: d
CodePath: EAS.CM2.E.C.17

18.
Answer: b
CodePath: EAS.CM2.E.C.21

19.
Answer: c
CodePath: EAS.CM2.E.B.25

20.
Answer: c
CodePath: EAS.CM2.E.B.33

21.
Answer: d
CodePath: EAS.CM2.E.B.37

22.
Answer: c
CodePath: EAS.MMA.I.K.7