

Grade 9 Practice Exam Answers.

I. Multiple Choices.

- | | | | | | | | |
|----|---|-----|---|-----|---|-----|---|
| 1. | D | 7. | C | 13. | A | 19. | B |
| 2. | B | 8. | D | 14. | D | 20. | B |
| 3. | A | 9. | B | 15. | B | 21. | B |
| 4. | D | 10. | C | 16. | C | 22. | A |
| 5. | D | 11. | A | 17. | D | 23. | C |
| 6. | A | 12. | A | 18. | B | 24. | A |

II. Short Answers.

1. Evaluate.

- | | | | |
|----|-----|----|------------------|
| a) | -18 | j) | $\frac{1}{12}$ |
| b) | 13 | k) | $-\frac{5}{9}$ |
| c) | -6 | l) | 1 |
| d) | 11 | m) | 1 |
| e) | 12 | n) | $1\frac{11}{15}$ |
| f) | 30 | | |
| g) | 8 | | |
| h) | 1 | | |
| i) | -6 | | |

2. Simplify.

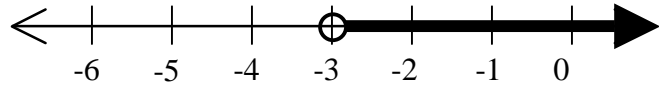
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|----|------------|----|---------------|
| a) | $7x$ | f) | $-5m - 25n$ |
| b) | $-4x - 4$ | g) | $2q + 6$ |
| c) | $-22x + 2$ | h) | $-9k - 1$ |
| d) | $7x - 5$ | i) | $-8.8x - 0.3$ |
| e) | $20x - 36$ | j) | $39g - 35h$ |

3. Solve.

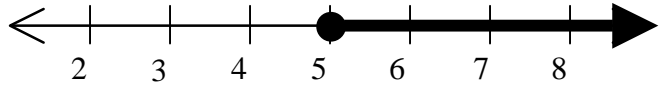
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|----|----------------|----|--------------------|
| a) | $b = 6$ | f) | $b = 8$ |
| b) | $k = 0$ | g) | $x = 12$ |
| c) | $a = -4$ | h) | $x = -\frac{1}{2}$ |
| d) | $x = 7$ | | |
| e) | $3\frac{1}{2}$ | | |

4. Inequalities

a) $-3 < x$



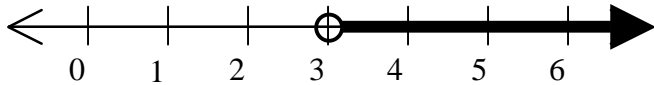
b) $5 \leq a$



c) $x < -\frac{3}{4}$



d) $r > 3$



e) $b < 6$



5. Word Problems.

a) $(n) + (n + 1) + (n + 2) = 66$
answer 23

b) $4w + 14 = 120$
answer 26.5 by 33.5

c) $x + x + 3 = 35$
answer 16

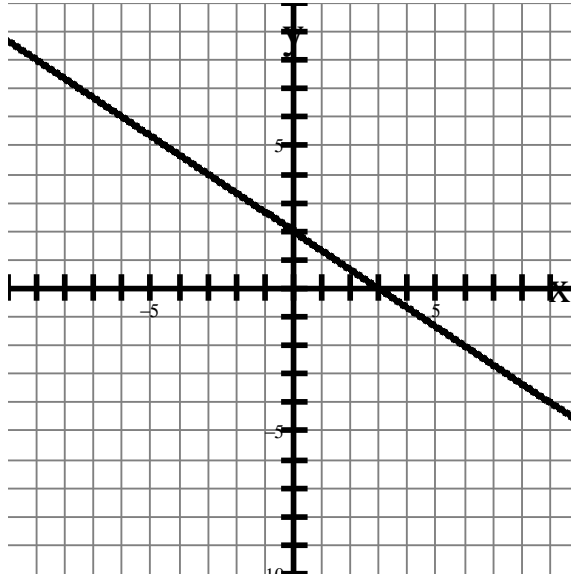
d) $x + 2x = 72$
answer 24

e) $3x + 12 = 2(x + 12)$
answer 12

f) $17 \geq \frac{1}{3}x$
answer 51

6. Graph.

- a) E
- b) $(-4, -2)$
- c) $y = -6$
- d) 0
- e) $x = 2$
- f) 2
- g) $y = -\frac{2}{3}x + 4$



7. Fill in the table of values.

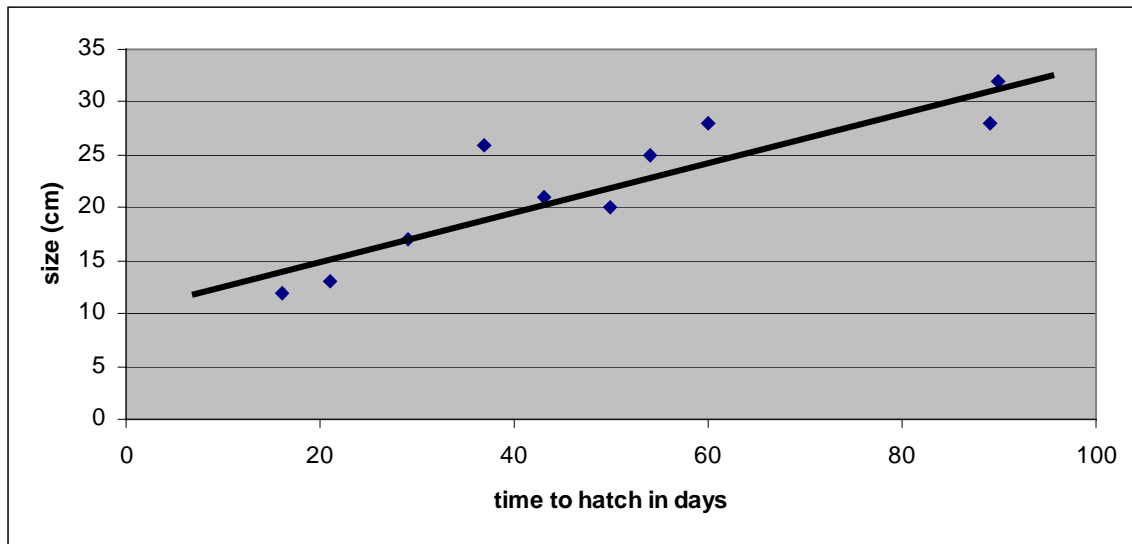
$$y = 2x + 1$$

x	y
-2	-3
-1	-1
0	1
1	3
2	5

$$y = \frac{1}{2}x - 2$$

x	y
-2	-3
-1	-5/2
0	-2
1	-3/2
2	-1

8. Scatterplot.



- b) strong positive relationship
- c) 27 or 28 days.