

CHAPTER TEST 2, FORM A

1. Expression because it doesn't have an equals symbol.

2. Linear because each variable term contains a single variable raised to an exponent of 1.

3. No

4. -6

5. -10.5

6. $\frac{4}{3}$

7. -5

8. 15

9. $\frac{3}{4}$

10. $y = 2x - 6$

11. $t = \frac{I}{pr}$

12. $h = \frac{3V}{\pi r^2}$

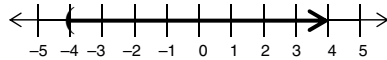
13. $b = \frac{2A}{h} - B$

14. $m = 3A - 2d$

15. a) $x > -4$

b) $\{x \mid x > -4\}$

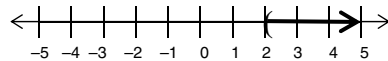
c)



16. a) $x > 2$

b) $\{x \mid x > 2\}$

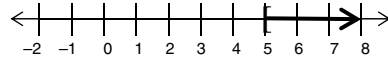
c)



17. a) $x \geq 5$

b) $\{x \mid x \geq 5\}$

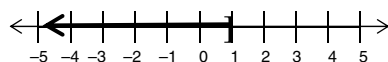
c)



18. a) $x \leq 1$

b) $\{x \mid x \leq 1\}$

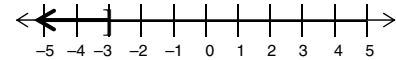
c)



19. a) $x \leq -3$

b) $\{x \mid x \leq -3\}$

c)



20. 3

21. 2, 15

22. 6.5 hours

23. 113°

24. $x \geq 1,209,000$

25. $x \geq 25$ meters

CHAPTER TEST 2, FORM B

1. Expression because it doesn't have an equals symbol.

2. Nonlinear because there is a variable raised to an exponent other than 1.

3. Yes

4. -6

5. -7.2

6. -2

7. 6

8. $\frac{25}{4}$

9. 21

10. $y = \frac{5}{4}x + 5$

11. $b = \frac{2A}{h}$

12. $b = P - a - c$

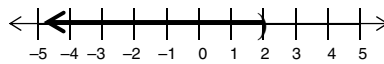
13. $T = \frac{PV}{K}$

14. $C = \frac{5}{9}(F - 32)$

15. a) $x < 2$

b) $\{x \mid x < 2\}$

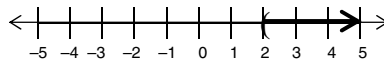
c)



16. a) $x > 2$

b) $\{x \mid x > 2\}$

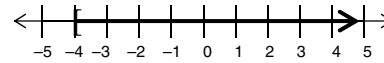
c)



17. a) $x \geq -4$

b) $\{x \mid x \geq -4\}$

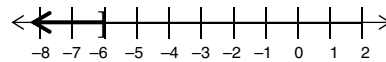
c)



18. a) $x \leq -6$

b) $\{x \mid x \leq -6\}$

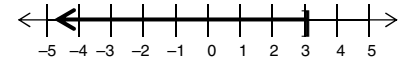
c)



19. a) $x \leq 3$

b) $\{x \mid x \leq 3\}$

c)



20. 18

21. 45

22. 7.5 hours

23. \$24,000

24. $x \geq 7$

25. $x \geq 12$ meters

CHAPTER TEST 2, FORM C

1. Expression because it doesn't have an equals symbol.

2. Linear because each variable term contains a single variable raised to an exponent of 1.

3. Yes

4. -5

5. 13

6. 7

7. \emptyset

8. $\frac{3}{4}$

9. 9

$$10. y = -\frac{1}{2}x - 2$$

$$11. r = \frac{C}{2\pi}$$

$$12. c = 3A - a - b$$

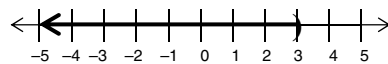
$$13. m = \frac{2K}{v^2}$$

$$14. C = -2a + 2$$

$$15. a) x < 3$$

$$b) \{x \mid x < 3\}$$

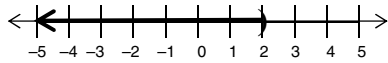
c)



$$16. a) x < 2$$

$$b) \{x \mid x < 2\}$$

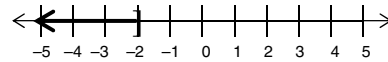
c)



$$17. a) x \leq -2$$

$$b) \{x \mid x \leq -2\}$$

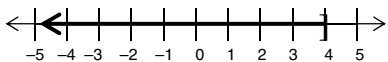
c)



$$18. a) x \leq 4$$

$$b) \{x \mid x \leq 4\}$$

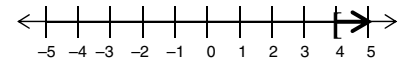
c)



$$19. a) x \geq 4$$

$$b) \{x \mid x \geq 4\}$$

c)



$$20. 2$$

$$21. 42 \text{ yards}$$

$$22. \$57,000$$

$$23. 20 \text{ gallons}$$

$$24. x \geq 82$$

$$25. x \geq 76 \text{ yards}$$

CHAPTER TEST 2, FORM D

1. Equation because it has an equals symbol.

2. Nonlinear because there is a variable raised to an exponent other than 1.

3. Yes

4. 0

5. 6.6

6. $\{x \mid x \text{ is a real number}\}$

7. 2

8. 3

9. 2

10. $x = 2y - 6$

11. $g = \frac{2S}{t^2}$

12. $r = \frac{A - P}{Pt}$

13. $a = \frac{2S}{n} - \ell$

14. $b_1 = \frac{2A - hb_2}{h}$

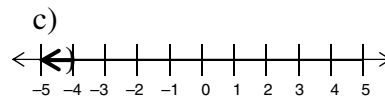
15. a) $y < -1$

b) $\{y \mid y < -1\}$



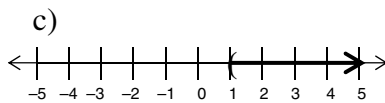
16. a) $x < -4$

b) $\{x \mid x < -4\}$



17. a) $a > 1$

b) $\{a \mid a > 1\}$



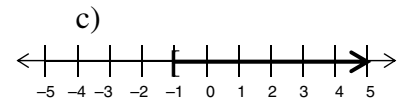
18. a) $x \geq 3$

b) $\{x \mid x \geq 3\}$



19. a) $b \geq -\frac{3}{4}$

b) $\{b \mid b \geq -\frac{3}{4}\}$



20. 8, 13

21. $42^\circ, 50^\circ, 88^\circ$

22. \$504

23. 400 ounces

24. $h \geq 10$ inches

25. $x \geq 98$

CHAPTER 2, FORM E

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|------|-------|-------|-------|-------|
| 1. b | 6. a | 11. d | 16. c | 21. a |
| 2. c | 7. b | 12. d | 17. b | 22. c |
| 3. b | 8. b | 13. d | 18. d | 23. c |
| 4. c | 9. a | 14. a | 19. a | 24. c |
| 5. d | 10. c | 15. c | 20. d | 25. d |
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CHAPTER 3, FORM A

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|--|----------------------------|-------------------------|---|------------------------------------|
| 1. $\frac{1}{3}$ | 6. 15 | 11. 5% | 16. 28% | 21. 156, 158 |
| 2. $\approx \frac{\$0.138}{1 \text{ oz.}}$ | 7. 0.38; $\frac{19}{50}$ | 12. 18.12 | 17. 60 mph | 22. \$3700 |
| 3. -9 | 8. 0.066; $\frac{33}{500}$ | 13. 2000 | 18. \$719.20 | 23. 43 feet, 23 feet |
| 4. -8 | 9. 470% | 14. \$12.90 | 19. 21 yds by
80 yds | 24. \$10,000 @ 9%
\$14,000 @ 6% |
| 5. 21 gallons | 10. 37.5% | 15. $4.1\overline{6}\%$ | 20. $45^\circ, 45^\circ,$
90° | 25. 80 ml |
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CHAPTER 3, FORM B

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|--------------|-----------------------------|----------|----------------|------------------------------------|
| 1. 175 miles | 6. 357.5 miles | 11. 70 | 16. 83, 84, 85 | 21. 10, 14 |
| 2. \$3.15 | 7. 0.56; $\frac{14}{25}$ | 12. 15% | 17. \$22,000 | 22. 12 mph |
| 3. -81 | 8. 0.0525; $\frac{21}{400}$ | 13. 8.61 | 18. 576 seats | 23. 28 feet |
| 4. 16 | 9. 505% | 14. 400 | 19. 14.3% | 24. \$18,000 @ 8%
\$12,000 @ 6% |
| 5. 36 lbs. | 10. 68% | 15. 48 | 20. 110, 111 | 25. 7 pounds |
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CHAPTER 3, FORM C

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|--|----------------------------|----------|---|----------------------------|
| 1. 100 mi. | 6. 6 | 11. 11 | 16. \$40,000 | 21. 10 mm, 34 mm,
30 mm |
| 2. $\approx \frac{\$0.228}{1 \text{ oz.}}$ | 7. 0.158; $\frac{79}{500}$ | 12. 25% | 17. -20, -18,
-16 | 22. 2:15 P.M. |
| 3. -6 | 8. 0.305; $\frac{61}{200}$ | 13. 18.3 | 18. 25% | 23. 8 cm, 32 cm,
32 cm |
| 4. -56 | 9. 2950% | 14. 60.5 | 19. $42^\circ, 42^\circ,$
96° | 24. \$6650 |
| 5. 14 gallons | 10. 52% | 15. 25% | 20. 6 | 25. 4 liters |
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CHAPTER 3, FORM D

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|-----------------------------------|-------------------------|----------|--------------|-------------------------------------|
| 1. $\frac{18}{13}$ | 6. 65.5 gallons | 11. 3 | 16. \$18,000 | 21. $17^\circ, 43^\circ, 120^\circ$ |
| 2. $\frac{\$0.23}{1 \text{ oz.}}$ | 7. 2.4; $\frac{12}{5}$ | 12. 25% | 17. 25% | 22. 12:15 P.M. |
| 3. -7.65 | 8. 0.125; $\frac{1}{8}$ | 13. 1920 | 18. \$11.39 | 23. 19 m, 8 m, 12 m |
| 4. $3\frac{8}{9}$ | 9. 7.5% | 14. 300 | 19. 20% | 24. \$11,500 |
| 5. 1315 | 10. $46\frac{2}{3}\%$ | 15. 6% | 20. 7 | 25. 70 almonds
30 peanuts |
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CHAPTER 3, FORM E

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|------|-------|-------|-------|-------|
| 1. a | 6. a | 11. c | 16. c | 21. d |
| 2. d | 7. d | 12. b | 17. a | 22. b |
| 3. b | 8. d | 13. b | 18. b | 23. a |
| 4. b | 9. c | 14. b | 19. a | 24. d |
| 5. d | 10. c | 15. d | 20. c | 25. b |
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