

Section 2.3 Exercises Part C

Chapter 2 Exam Review

Find the following:

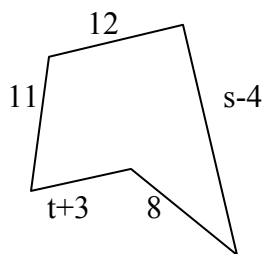
1. $7^3 + 6 \cdot 3 - 8(5)$

2. $2 \cdot v \cdot 9 \cdot m$

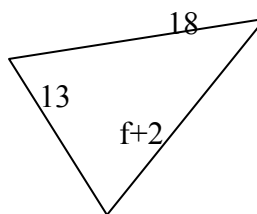
3. $6(3 - 7) - 4^2 \cdot (7 + 4)$

Find the perimeter of the following shapes:

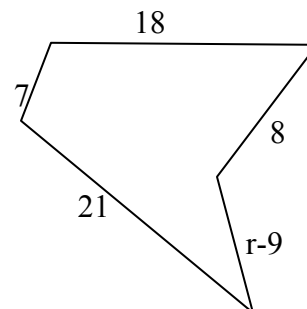
4.



5.



6.



Find the following when $p = -5$, $r = 7$, $t = \frac{2}{3}$, and $a = 4$.

7. $12 - a^3$

8. $\frac{7a-12}{4}$

9. $2r - 3p + 9t$

Use the formula for distance, rate and time.

10. $r = 6 \text{ m/h}$
 $t = 19 \text{ hours}$
 $d =$

11. $r = 65 \text{ km/h}$
 $t = 4.3 \text{ hours}$
 $d =$

12. $r = 36 \text{ feet per second}$
 $t = 2\frac{1}{3} \text{ seconds}$
 $d =$

Use the formula for Interest.

13. $P = \$2,800$
 $r = 7\%$
 $t = 4$
 $A =$

14. $P = \$5,000$
 $r = 6\%$
 $t = 9$
 $A =$

15. $P = \$300$
 $r = 13\%$
 $t = 7$
 $A =$

Use the formulas for Money totals (you may have to make up your own) when q stands for quarters, d for dimes, n for nickels and p for pennies.

16. $q = 15$
 $d = 27$
 $V =$

17. $p = 30$
 $d = 25$
 $V =$

18. $p = 37$
 $q = 23$
 $n = 7$
 $V =$

Use the formula for Temperature Conversion.

19. $F = 212$
 $C =$

20. $F = 98.6$
 $C =$

21. $F = -40$
 $C =$

Use the formulas for a cone.

22. $r = 6$ m
 $h = 7$ m
 $V =$

23. $r = 9$ ft
 $l = 12.8$ ft
 $SA =$

24. $r = 3$ in
 $l = 7.9$ in
 $LSA =$

Use the formulas for a rectangle.

25. $l = 3$ yd
 $w = 5$ yd
 $A =$

26. $l = 10.7$ cm
 $w = 4$ cm
 $A =$

27. $l = 8.6$ mm
 $w = 9$ mm
 $P =$

Use the formulas for a circle.

28. $r = 4$ in
 $C =$

29. $r = 15$ in
 $A =$

30. $r = 7$ m
 $C =$

Use the formulas for rectangular solid.

31. $l = 7$ cm
 $w = 2$ cm
 $h = 8$ cm
 $SA =$

32. $l = 4.2$ mi
 $w = 5$ mi
 $h = 7$ mi
 $V =$

33. $l = 6$ km
 $w = 8$ km
 $h = 2\frac{1}{2}$ km
 $SA =$

34. Create a Visual Chart on one side of a piece of paper for Chapter 2 material including information and examples relating to Calculator and Spreadsheet Usage and Formulas.

Answers:

- | | | | |
|------------|-----------------------|------------|--------------------|
| 1. | 321 | 31. | 172 cm^2 |
| 2. | 18vm | 32. | 147 mi^3 |
| 3. | -200 | 33. | 166 km^2 |
| 4. | $30 + s + t$ | | |
| 5. | $f + 33$ | | |
| 6. | $r + 45$ | | |
| 7. | -52 | | |
| 8. | 4 | | |
| 9. | 35 | | |
| 10. | 114 | | |
| 11. | 279.5 | | |
| 12. | 84 | | |
| 13. | \$3,670.23 | | |
| 14. | \$8,447.39 | | |
| 15. | \$705.78 | | |
| 16. | \$6.45 | | |
| 17. | \$2.80 | | |
| 18. | \$6.47 | | |
| 19. | 100° C | | |
| 20. | 37° C | | |
| 21. | -40° C | | |
| 22. | 263.89 m^3 | | |
| 23. | 616.38 ft^2 | | |
| 24. | 74.46 in^2 | | |
| 25. | 15 yd^2 | | |
| 26. | 42.8 cm^2 | | |
| 27. | 35.2 mm | | |
| 28. | 25.13 in | | |
| 29. | 706.86 in^2 | | |
| 30. | 43.98 m | | |