

Record and Practice Journal Answer Key

Chapter 1

Fair Game Review

1. $14x$
2. $-11b - 4$
3. $90 - 15g$
4. $2y - 42$
5. $5m + 48$
6. $13a - 2$
7. $1.5p + 3p + 2.5p$; $7p$
8. -4
9. -12
10. -8
11. -8
12. 7
13. -7
14. 6
15. -12
16. 58°F

1.1 Activity

1.

Triangle	Angle <i>A</i>	Angle <i>B</i>	Angle <i>C</i>	<i>A</i> + <i>B</i> + <i>C</i>
a.	60	60	60	180
b.	90	45	45	180
c.	120	30	30	180
d.	30	60	90	180

2. a. The sum of the angle measures of a triangle is 180° .
b. Answer should include, but is not limited to: The sum of the angle measures of each triangle should be 180° . Some might be a little off due to rounding.
3. a. $27 + 82 + x = 180$; $x = 71$
b. $43 + 52 + x = 180$; $x = 85$
c. $x + 62.5 + 77 = 180$; $x = 40.5$
d. $33.4 + x + 51.3 = 180$; $x = 95.3$
4. Sample answer: If you notice a pattern, you can use inductive reasoning to write a rule. Then you can test your rule using several examples. You can use the rule to write an equation that can be used to solve a problem.

1.1 Practice

1. $x = 11$
2. $w = 23$
3. $z = \frac{1}{15}$
4. $y = 6$
5. $k = 70$
6. $n = \frac{9}{8}$
7. $x = 11$
8. $h = 7$
9. $p = 5.3$
10. $p - 5.16 = 15.48$; $p = \$20.64$

1.2 Activity

1. a. $2n + 42 = 180$; $n = 69$; 69° , 69° , 42°
b. $x + (x + 10) + (x + 5) = 180$; $x = 55$; 55° , 65° , 60°
c. $5q = 180$; $q = 36$; 36° , 36° , 108°
d. $3m + (m + 10) = 180$; $m = 42.5$; 42.5° , 85° , 52.5°
e. $y + (y - 30) + 90 = 180$; $y = 60$; 60° , 30° , 90°
f. $(t + 10.5) + 2t + 90 = 180$; $t = 36.5$; 37° , 53° , 90°

2. $f = 65$, $k = 135$, $m = 30$, $n = 60$, $p = 75$, $s = 15$, $t = 90$, $w = 25$, $x = 45$, $y = 40$
indigo: 45° , 45° , 90°
violet: 60° , 60° , 60°
orange: 75° , 65° , 40°
yellow: 25° , 60° , 95°
blue: 75° , 75° , 30°
green: 15° , 135° , 30°

3. a–d.

	Monday	Tuesday	Wednesday
Degrees	36°	54°	90°
Percent	10%	15%	25%
People	20	30	50

	Thursday	Friday
Degrees	108°	72°
Percent	30%	20%
People	60	40

4. Sample answer: To solve a multi-step equation, use inverse operations. To check the reasonableness of a solution, make sure the solution makes sense and substitute the solution back into the equation.

1.2 Practice

1. $x = 11$
2. $b = 1.5$
3. $z = 2$
4. $w = 64$
5. $a = 1$
6. $q = 7$
7. $w = 4$ cm

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