


B Quiz #23

<p>1.</p> <p style="text-align: center;">12 m</p> <p style="font-size: small; transform: rotate(-90deg); position: absolute; left: -40px; top: 50px;">7.G.6</p>	<p>2.</p> <p style="text-align: center;">Day 2: 45.6 mph</p> <p style="font-size: small; transform: rotate(-90deg); position: absolute; left: -40px; top: 50px;">7.EE.3</p>
<p>3.</p> <p style="text-align: center;">$6(6g + j + 10)$</p> <p style="font-size: small; transform: rotate(-90deg); position: absolute; left: -40px; top: 50px;">7.EE.1</p>	<p>4.</p> <p style="text-align: center;">\$57.23</p> <p style="font-size: small; transform: rotate(-90deg); position: absolute; left: -40px; top: 50px;">7.RP.3</p>
<p>5.</p> <div style="display: flex; align-items: center; justify-content: center;">  <div style="margin-left: 20px;"> <p>$P(\text{not } 5) = \frac{9}{10}$</p> </div> </div> <p style="font-size: small; transform: rotate(-90deg); position: absolute; left: -40px; top: 50px;">7.SP.5</p>	<p>6.</p> <p style="text-align: center;">41</p> <p style="font-size: small; transform: rotate(-90deg); position: absolute; left: -40px; top: 50px;">7.NS.3</p>
<p>7.</p> <p style="text-align: center;">282.6 cm² combined area</p> <p style="font-size: small; transform: rotate(-90deg); position: absolute; left: -40px; top: 50px;">7.G.4</p>	<p>8.</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; width: 40px; height: 40px; margin-right: 20px; position: relative;"> <div style="position: absolute; top: -10px; left: 50%; transform: translate(-50%, -50%);">5x</div> </div> <div> <p>$4(5x)$</p> <p>$P = 160 \text{ m}$</p> </div> </div> <p style="font-size: small; transform: rotate(-90deg); position: absolute; left: -40px; top: 50px;">7.EE.1</p>
<p>9.</p> <p style="text-align: center;">$4\frac{2}{3}$ C beans</p> <p style="font-size: small; transform: rotate(-90deg); position: absolute; left: -40px; top: 50px;">7.RP.1</p>	<p>10.</p> <p style="text-align: center;">$5c = 9.00$ $c = \\$1.80 \text{ per cone}$</p> <p style="font-size: small; transform: rotate(-90deg); position: absolute; left: -40px; top: 50px;">7.EE.4</p>
<p>11.</p> <p style="text-align: center;">-84</p> <p style="font-size: small; transform: rotate(-90deg); position: absolute; left: -40px; top: 50px;">7.NS.2</p>	<p>12.</p> <p style="text-align: center; font-size: small;">Sample Space</p> <div style="margin-left: 20px;"> <p>ZU $\left\{ \begin{array}{l} \text{R} - \text{ZUR} \\ \text{G} - \text{ZUG} \\ \text{B} - \text{ZUB} \end{array} \right.$</p> <p>PO $\left\{ \begin{array}{l} \text{R} - \text{POR} \\ \text{G} - \text{POG} \\ \text{B} - \text{POB} \end{array} \right.$</p> </div> <p style="font-size: small;">zip up (ZU), pullover (PO), red(R), green(G), black(B) 6 choices</p> <p style="font-size: small; transform: rotate(-90deg); position: absolute; left: -40px; top: 50px;">7.SP.8</p>

B Quiz #24

1.

7.RP.1

$$1\frac{1}{3}$$

2.

7.SP.2

mean is 63
estimate of "yes" votes
47,250

3.

7.EE.1

$$-6w - 2$$

4.

7.NS.3

$$27$$

5.

7.EE.4

$$a = 3$$

6.

7.EE.3

\$60 each

7.

7.G.2

- A) 7, 8, 20
B) 13, 6, 8
 C) 12, 3, 6
 D) 14, 6, 7

8.

7.NS.2

$$-\frac{15}{28}$$

9.

7.G.4

$$r = 9 \text{ ft}$$

10.

7.RP.3

32% decrease

11.

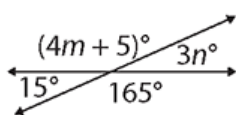
7.SP.8

DICE	1	2	3	4	5	6
1	2	3	4	5	6	7
2	3	4	5	6	7	8
3	4	5	6	7	8	9
4	5	6	7	8	9	10
5	6	7	8	9	10	11
6	7	8	9	10	11	12

P(sum < 6) is $\frac{10}{36}$ or $\frac{5}{18}$

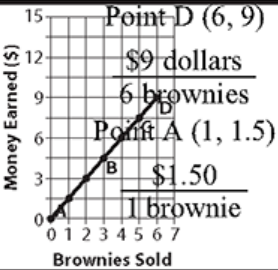
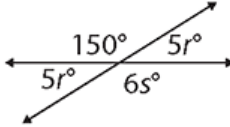
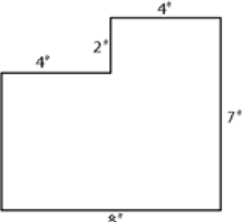
12.

7.G.5

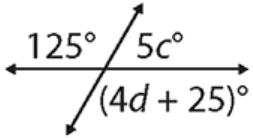
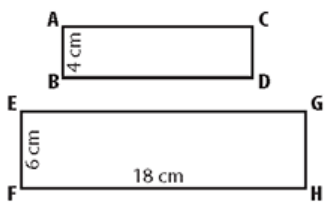
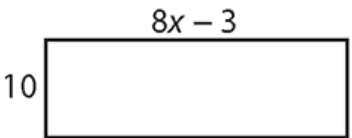


$$\begin{aligned} m &= 40 \\ n &= 5 \end{aligned}$$

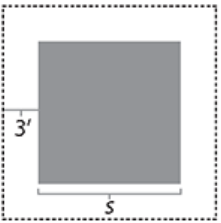
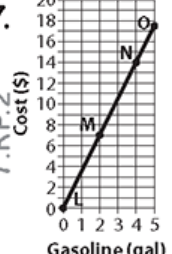
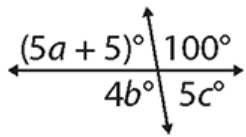
B Quiz #25

<p>1.</p> <p style="text-align: center;">61 and older</p> <p style="font-size: small;">7.SP.2</p>	<p>2.</p> $12a + 3 = 24$ $a = \$1.75 \text{ per app}$ <p style="font-size: small;">7.EE.4</p>
<p>3.</p> <p style="text-align: center;">Yes.</p> $0.03 \times 850 = 25.5$ <p style="text-align: center;">estimate $25 \times 4 = \\$100$</p> <p style="text-align: center;">actual $\\$25.50 \times 4 = \\102</p> <p style="font-size: small;">7.EE.3</p>	<p>4.</p> $C = 131.88 \text{ m}$ <p style="font-size: small;">7.G.4</p>
<p>5.</p> <p style="text-align: center;">20</p> <p style="font-size: small;">7.NS.3</p>	<p>6.</p> $P = 36 \text{ feet}$ <p style="font-size: small;">7.EE.1</p>
<p>7.</p>  <p style="font-size: small;">7.RP.2</p>	<p>8.</p> <p style="text-align: center;">\$102 per month</p> <p style="font-size: small;">7.RP.3</p>
<p>9.</p> <p style="text-align: center;">-26</p> <p style="font-size: small;">7.NS.2</p>	<p>10.</p>  $r = 6$ $s = 25$ <p style="font-size: small;">7.G.5</p>
<p>11.</p>  <p style="text-align: center;">P = 60 ft A = 192 ft²</p> <p style="font-size: x-small;">Scale: 1 inch = 2 feet</p> <p style="font-size: small;">7.G.1</p>	<p>12.</p> <p style="text-align: center;">About 12,000 citizens own both a dog and a cat.</p> <p style="font-size: small;">7.SP.2</p>

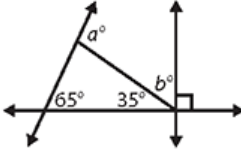
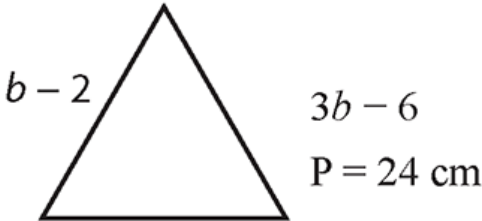
B Quiz #26

<p>1. 7.EE.2</p> $x + (x + 2)$ <p style="text-align: center;">or</p> $2x + 2$	<p>2. 7.RP.1</p> $\frac{1}{4}$
<p>3. 7.G.5</p>  <p style="margin-left: 100px;">$c = 11$ $d = 25$</p>	<p>4. 7.SP.2</p> <p style="text-align: center;">75,000 against the issue</p>
<p>5. 7.NS.3</p> <p style="text-align: center;">8</p>	<p>6. 7.RP.3</p> <p style="text-align: center;">\$58.20 for Hanson's dinner</p>
<p>7. 7.EE.4</p> $x = 3$	<p>8. 7.NS.2</p> <p>A) $-3 \times -5 = 15$ B) $-3 + -5 = -8$ C) $-3 \times 5 = -15$</p> <p style="text-align: center;">-15 means he missed 15 items</p>
<p>9. 7.G.1</p>  <p style="margin-left: 100px;">Ratio is $\frac{2}{3}$.</p>	<p>10. 7.EE.1</p>  <p style="text-align: center;">$P = 62 \text{ ft}$</p>
<p>11. 7.NS.1</p> <p>A) $-6 + 21 = 15$ B) $-21 + 6 = -15$ C) $21 + 6 = 27$ D) $6 + (-21) = -15$</p> <p style="text-align: center;">B and D are both -15</p>	<p>12. 7.G.4</p> $A = 529\pi$ <p style="text-align: center;">or</p> $A = 1,661.06 \text{ in.}^2$

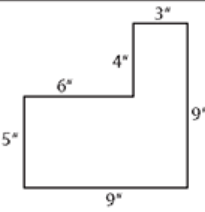
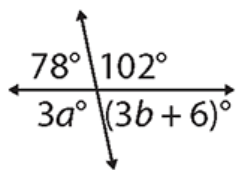
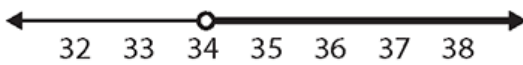
B Quiz #27

<p>1.</p> <p>7.EE.2</p>  <p>$4(s + 6)$</p> <p>$4s + 24$</p>	<p>2.</p> <p>7.RP.3</p> <p>\$13.16 per day with discount</p>
<p>3.</p> <p>7.G.4</p> <p>1,020.5 mm²</p>	<p>4.</p> <p>7.EE.3</p> <p>8 equal payments of \$2,656.25</p>
<p>5.</p> <p>7.SP.8</p> <p>$\frac{1}{36}$</p>	<p>6.</p> <p>7.NS.2</p> <p>$0.\overline{27}$</p>
<p>7.</p> <p>7.RP.2</p>  <p>Point N (4, 14) 4 gal of gas costs \$14 Point L 0 gal of gas cost \$0</p>	<p>8.</p> <p>7.EE.4</p> <p>$5n + 25 = \\$235$ $n = \\$42$ per ticket</p>
<p>9.</p> <p>7.RP.1</p> <p>$\frac{3\frac{1}{3} \text{ yd}^3 \text{ of soil}}{1 \text{ yd}^3 \text{ fertilizer}}$</p>	<p>10.</p> <p>7.G.5</p>  <p>$a = 15$ $b = 25$ $c = 16$</p>
<p>11.</p> <p>7.NS.3</p> <p>22</p>	<p>12.</p> <p>7.SP.5</p> <p>$P(\text{blue}) = \frac{2}{5}$</p>

B Quiz #28

<p>1.</p> <p>7.SP.8</p> $P(\text{TTTHH}) = \frac{1}{32}$	<p>2.</p> <p>7.NS.2</p> $\frac{1}{4} \times 20 = g$ $g = 5$
<p>3.</p> <p>7.G.2</p> <p>A) $90^\circ, 35^\circ, 55^\circ$ B) $60^\circ, 55^\circ, 65^\circ$ C) $75^\circ, 35^\circ, 70^\circ$ D) $50^\circ, 60^\circ, 90^\circ$</p>	<p>4.</p> <p>7.EE.4</p> $18 + l \leq 30$ $l \leq \$12$
<p>5.</p> <p>7.G.4</p> $C = 150.72 \text{ in.}$	<p>6.</p> <p>7.EE.3</p> $\left. \begin{array}{l} \frac{1}{20} = 0.05 \times 1,200 = 60 \text{ evergreens} \\ 25\% = 0.25 \times 1,200 = 300 \text{ birch} \end{array} \right\} 360 \text{ total}$ $1,200 - 360 = 840$ <p>Yes, it is reasonable. See work.</p>
<p>7.</p> <p>7.RP.1</p> $\frac{1}{2}$	<p>8.</p> <p>7.SP.1</p> <p>Yes, persons at the BMV are likely to include all ages, genders, and political beliefs.</p>
<p>9.</p> <p>7.NS.3</p> 5	<p>10.</p> <p>7.G.5</p>  $a = 100^\circ$ $b = 55^\circ$
<p>11.</p> <p>7.EE.1</p> 	<p>12.</p> <p>7.SP.2</p> <p>About 3,200 people own a truck or SUV.</p>

B Quiz #29

<p>1. 7.SP.5 $P(\text{strawberry soda})$ is $\frac{5}{13}$.</p>	<p>2. 7.G.1  $P = 108$ yd $A = 513$ yd² <small>Scale: 1 inch to 3 yd</small></p>									
<p>3. 7.G.5  $a = 34$ $b = 24$</p>	<p>4. 7.NS.2 -0.80</p>									
<p>5. 7.SP.8 hot dog, chips chicken, chips hot dog, salad chicken, salad hot dog, fries chicken, fries hamburger, chips hamburger, salad (9 options) hamburger, fries</p>	<p>6. 7.EE.3 $18.50 \times 1.12 = 20.72$ $20.72 \times 40 = 828.8$ \$828.80 per week</p>									
<p>7. 7.SP.3 <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="padding: 5px;"></th> <th style="padding: 5px; text-align: center;">Median</th> <th style="padding: 5px; text-align: center;">IQR</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Company A</td> <td style="padding: 5px; text-align: center;">10</td> <td style="padding: 5px; text-align: center;">5</td> </tr> <tr> <td style="padding: 5px;">Company B</td> <td style="padding: 5px; text-align: center;">18</td> <td style="padding: 5px; text-align: center;">8</td> </tr> </tbody> </table></p>		Median	IQR	Company A	10	5	Company B	18	8	<p>8. 7.SP.3 Company B makes cookies with the most chocolate chips. The box plot shows that the middle 50% ($\frac{1}{2}$) of the cookies have between 16 to 24 chips, whereas Company A's middle 50% is between 8 and 13.</p>
	Median	IQR								
Company A	10	5								
Company B	18	8								
<p>9. 7.RP.1 $\frac{2}{1}$</p>	<p>10. 7.EE.4 $y > 34$ </p>									
<p>11. 7.RP.3 \$252</p>	<p>12. 7.SP.7 $\frac{3}{30}$ or $\frac{1}{10}$</p>									

B Quiz #30

1.

7.G.4

$$C = 175.84 \text{ in.}$$

2.

7.SP.2

about 37,800 will attend

3.

7.EE.3

\$2,656.25 each

4.

7.SP.8

$$P(\text{yellow}) = \frac{1}{11}$$

5.

7.RP.2

$$C \text{ of } P = 180$$

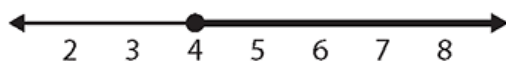
$$c = 180n$$

Number of cans (n)	2	4	7	9
Calories (c)	360	720	1,260	1,620

6.

7.EE.4

$$x \geq 4$$



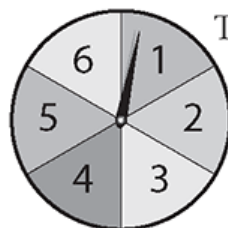
7.

7.RP.1

$2\frac{1}{2}$ gallon of paint

8.

7.SP.6



Theoretical $P(6) = \frac{1}{6}$
 Relative frequency
 $\frac{6}{36} = \frac{1}{6}$

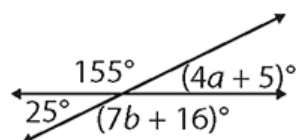
9.

7.RP.3

10% decrease in points

10.

7.G.5

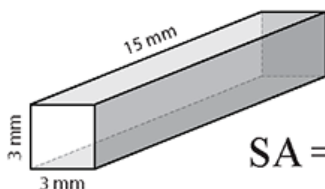


$$a = 5$$

$$b = 20$$

11.

7.G.6



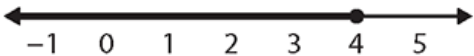
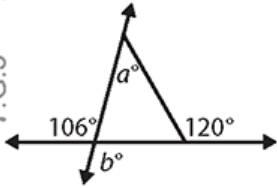
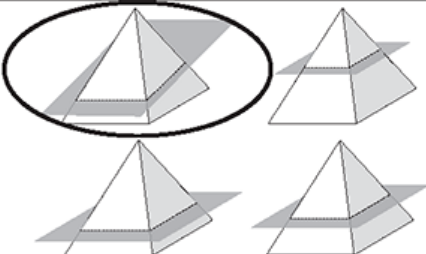
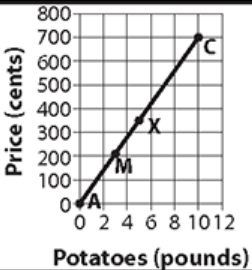
$$SA = 198 \text{ mm}^2$$

12.

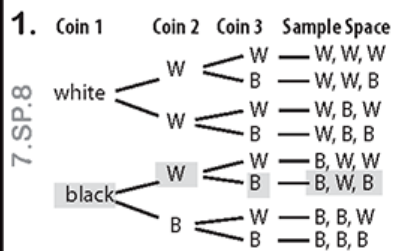
7.NS.2

$$-\frac{2}{5} = -0.4$$

B Quiz #31

<p>1.</p> <p>7.NS.3</p> <p style="text-align: center;">8</p>	<p>2.</p> <p>7.EE.4</p> <p style="text-align: center;">$x \leq 4$</p> 								
<p>3. Sample Space</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">WPT</td> <td style="width: 50%;">WCT</td> </tr> <tr> <td>WPP</td> <td>WCP</td> </tr> <tr> <td>SPT</td> <td>SCT</td> </tr> <tr> <td>SPP</td> <td>SCP (8 meal options)</td> </tr> </table> <p>7.SP.8</p>	WPT	WCT	WPP	WCP	SPT	SCT	SPP	SCP (8 meal options)	<p>4.</p> <p>7.G.5</p>  <p style="text-align: right;">$a = 46^\circ$ $b = 106^\circ$</p>
WPT	WCT								
WPP	WCP								
SPT	SCT								
SPP	SCP (8 meal options)								
<p>5.</p> <p>7.RP.3</p> <p style="text-align: center;">\$387.20</p>	<p>6.</p> <p>7.SP.6</p> <p style="text-align: center;">A) unknown</p> <p style="text-align: center;">B) 50 times</p> <p style="text-align: center;">C) 25% of the spins</p>								
<p>7.</p> <p>7.G.3</p> 	<p>8.</p> <p>7.NS.2</p> <p style="text-align: center;">-60</p>								
<p>9.</p> <p>7.EE.1</p> <p style="text-align: center;">$14w - 5$</p> <p style="text-align: center;">65</p>	<p>10.</p> <p>7.RP.2</p>  <p style="text-align: right;">$c = 70p$</p>								
<p>11.</p> <p>7.RP.1</p> <p style="text-align: center;">$2\frac{2}{15}$</p>	<p>12.</p> <p>7.EE.3</p> <p style="text-align: center;">tallest</p> <p style="text-align: center;">↓</p> <p style="text-align: center;">shortest</p> <p style="text-align: right;">C D B A</p>								

B Quiz #32



2.

7.NS.2

$$+2\frac{1}{10}$$

3.

7.G.5

$a = 24$
 $b = 13$

4.

7.EE.3

\$959.20
Yes, this is reasonable.

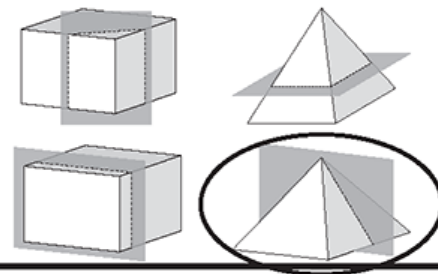
5.

7.RP.3

\$1,050 in commission

6.

7.G.3



7.

7.NS.1

- A) $-1 + (-12)$
- B) $-12 + 1$
- C) $1 + (-12)$

8.

7.EE.2

$$2b + 4$$

9.

7.EE.1

$$P = 33 \text{ m}$$

10.

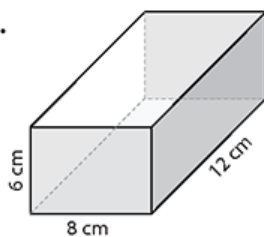
7.SP.5

$$P(\text{club}) = \frac{1}{4}$$

$$P(\text{spade}) = \frac{1}{4}$$

11.

7.G.6



$$V = 576 \text{ cm}^3$$

12.

7.EE.4

$$x \leq 2$$

