| Item \# | Response A/F | Response B/G | Response C/H | Response D/J |
| :---: | :---: | :---: | :---: | :---: |
| 1 | $A$ is incorrect because 15 seeds sprouted in one packet. $15 \times 6$ packets $=90$ seeds, which is more than 50 seeds. | B is correct because15 seeds sprouted in one packet. $15 \times 6$ packets $=90$ seeds, which is between 50 and 100 seeds. | C is incorrect because 15 seeds sprouted in one packet. $15 \times 6$ packets $=90$ seeds, which is not between 100 and 120 seeds. | D is incorrect because 15 seeds sprouted in one packet. $15 \times 6$ packets $=90$ seeds, which is not all 120 seeds. |
| 2 | F is correct because the length can be found using the proportion $x / 18=15 / 12$, which simplifies to $x=22.5$. | G is incorrect because the length can be found using the proportion $\mathrm{x} / 18=15 / 12$, which simplifies to $x=22.5$, not 8 . | H is incorrect because the length can be found using the proportion x/18 = 15/12, which simplifies to $\mathrm{x}=22.5$, not 10.8 . | J is incorrect because the length can be found using the proportion $\mathrm{x} / 18=15 / 12$, which simplifies to $x=22.5$, not 30 . |
| 3 | A is incorrect because 3(20 - $14)=18 \text {, not } 44 \text {. }$ | B is incorrect because 3 (12 - $14)=-6 \text {, not } 6 \text {. }$ | C is correct because 2(14-3) $=22$. | D is incorrect because 2(14) $3=25$, not 22 . |
| 4 | F is correct because the formula for the area of a rectangle is $\mathrm{A}=\mathrm{bh}$, so the total area of the yard minus the area where digging is not allowed can be found using A $=22(17)-6(17)=272$. | G is incorrect because the formula for the area of a rectangle is $A=b h$, so the total area of the yard minus the area where digging is not allowed can be found using A $=22(17)-6(17)=272$, not 374. | H is incorrect because the formula for the area of a rectangle is $A=b h$, so the total area of the yard minus the area where digging is not allowed can be found using A $=22(17)-6(17)=272$, not 102. | J is incorrect because the formula for the area of a rectangle is $A=b h$, so the total area of the yard minus the area where digging is not allowed can be found using A $=22(17)-6(17)=272$, not 59 . |
| 5 | A is correct because the change can be found using 10 $\begin{aligned} & (1.69+1.69+1.49+1.09+ \\ & 0.48)=3.56 \end{aligned}$ | B is incorrect because the change can be found using 10 $\left(\begin{array}{l} (1.69+1.69+1.49+1.09+ \\ 0.48)=3.56, \text { not } 6.44 . \end{array}\right.$ | C is incorrect because the change can be found using 10 $\begin{aligned} & (1.69+1.69+1.49+1.09+ \\ & 0.48)=3.56, \text { not } 5.25 . \end{aligned}$ | D is incorrect because the change can be found using 10 $\left(\begin{array}{l} (1.69+1.69+1.49+1.09+ \\ 0.48)=3.56, \text { not } 4.75 \end{array}\right.$ |
| 6 | F is incorrect because the range of the data for Farm Y , which is $30-5=25$, is less than the range of the data for Farm $X$, which is $35-4=31$. | G is incorrect because the third quartile of the data for Farm Y , which is 27, is greater than the third quartile of the data for Farm $X$, which is 24. | H is correct because the median of the data for Farm Y , which is 18 , is greater than the median of the data for Farm X, which is 17 . | $J$ is incorrect because the first quartile of the data for Farm Y , which is 12 , is less than the first quartile of the data for Farm X , which is 15 . |
| 7 | A is incorrect because 25 cards multiplied by the number of weeks, w, added to 200 cards is greater than 750 is represented by the inequality $25 w+200>750$, not 200w + $25<750$. | B is incorrect because 25 cards multiplied by the number of weeks, $w$, added to 200 cards is greater than 750 is represented by the inequality $25 w+200>750$, not $25 w+$ $200<750$. | C is incorrect because 25 cards multiplied by the number of weeks, w, added to 200 cards is greater than 750 is represented by the inequality $25 w+200>750$, not $200 \mathrm{w}+$ $25>750$. | D is correct because 25 cards multiplied by the number of weeks, w, added to 200 cards is greater than 750 is represented by the inequality $25 w+200>750$. |
| 8 | F is incorrect because the formula for the circumference of a circle is $\mathrm{C}=2 \pi \mathrm{r}$, so $\mathrm{C}=$ 2( $(\pi)(2.5) \approx 2(3.14)(2.5)=$ 15.7, not 7.85 . | G is correct because the formula for the circumference of a circle is $C=2 \pi r$, so $C=$ 2( $(\pi)(2.5) \approx 2(3.14)(2.5)=$ 15.7. | H is incorrect because the formula for the circumference of a circle is $\mathrm{C}=2 \pi \mathrm{r}$, so $\mathrm{C}=$ 2(T) (2.5) $\approx 2(3.14)(2.5)=$ 15.7, not 19.63. | J is incorrect because the formula for the circumference of a circle is $\mathrm{C}=2 \pi \mathrm{r}$, so $\mathrm{C}=$ 2(T) (2.5) $\approx 2(3.14)(2.5)=$ 15.7, not 31.4 . |
| 9 | A is incorrect because $d=55 t$ does represent a car traveling at 55 miles per hour. | B is incorrect because the table shows values of time and distance that do represent a car traveling at 55 miles per hour. | C is correct because a car traveling 160 miles in 3 hours does NOT represent a car traveling at 55 miles per hour. | D is incorrect because the graph does represent a car traveling at 55 miles per hour. |


| Item \# | Response A/F | Response B/G | Response C/H | Response D/J |
| :---: | :---: | :---: | :---: | :---: |
| 10 | $F$ is incorrect because 3 liters $=3,000$ milliliters and if there are 29.6 milliliters in 1 fluid ounce, then the number of fluid ounces is $3,000 / 29.6$, which is closest to 101, not 89 . | G is correct because 3 liters = 3,000 milliliters and if there are 29.6 milliliters in 1 fluid ounce, then the number of fluid ounces is $3,000 / 29.6$, which is closest to 101. | H is incorrect because 3 liters $=3,000$ milliliters and if there are 29.6 milliliters in 1 fluid ounce, then the number of fluid ounces is $3,000 / 29.6$, which is closest to 101, not 10. | J is incorrect because 3 liters $=3,000$ milliliters and if there are 29.6 milliliters in 1 fluid ounce, then the number of fluid ounces is $3,000 / 29.6$, which is closest to 101 , not 33 . |
| 11 | A is incorrect because there are 5 blue out of 15 total marbles in the first bag and 2 blue out of 9 total marbles in the second bag, so (5/15)(2/9) $=10 / 135$, which simplifies to 2/27, not 5/9. | $B$ is incorrect because there are 5 blue out of 15 total marbles in the first bag and 2 blue out of 9 total marbles in the second bag, so (5/15)(2/9) $=10 / 135$, which simplifies to 2/27, not $1 / 135$. | $\begin{aligned} & \text { C is incorrect because there } \\ & \text { are } 5 \text { blue out of } 15 \text { total } \\ & \text { marbles in the first bag and } 2 \\ & \text { blue out of } 9 \text { total marbles in } \\ & \text { the second bag, so }(5 / 15)(2 / 9) \\ & =10 / 135 \text {, which simplifies to } \\ & 2 / 27, \text { not } 1 / 6 \text {. } \end{aligned}$ | D is correct because there are 5 blue out of 15 total marbles in the first bag and 2 blue out of 9 total marbles in the second bag, so (5/15)(2/9) = 10/135, which simplifies to 2/27. |
| 12 | $\mathrm{F} ; 11.75$ is correct because $47.00 \div 4=11.75$. | G; Students may have multiplied $47.00 \times 4=188$. |  |  |
| 13 | A is correct because the formula for volume of a rectangular prism is $\mathrm{V}=\mathrm{Bh}$, so $V=(3)(3)(3)=27$ for each cube, and the combined volume of the two number cubes is 54 . | $B$ is incorrect because the formula for volume of a rectangular prism is $\mathrm{V}=\mathrm{Bh}$, so $\mathrm{V}=(3)(3)(3)=27$ for each cube, and the combined volume of the two number cubes is 54 , not 18 . | C is incorrect because the formula for volume of a rectangular prism is $V=B h$, so $\mathrm{V}=(3)(3)(3)=27$ for each cube, and the combined volume of the two number cubes is 54 , not 9 . | D is incorrect because the formula for volume of a rectangular prism is $V=\mathrm{Bh}$, so $\mathrm{V}=(3)(3)(3)=27$ for each cube, and the combined volume of the two number cubes is 54 , not 27 . |
| 14 | Fis incorrect because the <br> price was reduced by $\$ 15$, and <br> $15 / 60$ is $25 \%$, not $15 \%$. | G is correct because the price was reduced by $\$ 15$, and $15 / 60$ is $25 \%$. | His incorrect because the price was reduced by $\$ 15$, and $15 / 60$ is $25 \%$, not $75 \%$. | J is incorrect because the price was reduced by $\$ 15$, and $15 / 60$ is $25 \%$, not $40 \%$. |
| 15 | A is incorrect because (9+4+ 3) $/ 50=16 / 50=32 \%$ of students chose red, yellow, or orange as their favorite color, which is more than $30 \%$. | B is incorrect because 4/50 = $8 \%$ of students chose pink as their favorite color, which is less than $1 / 10=10 \%$. | C is correct because $9 / 50=$ $18 \%$ of students chose blue as their favorite color. | D is incorrect because ( $7+8+$ 6)/50 $=42 \%$ of students chose blue as their favorite color, not $2 / 5=40 \%$. |
| 16 | $F$ is incorrect because using the equation $y=5 x$ does not generate the correct $y$ values in the table. | G is incorrect because using the equation $y=x+5$ does not generate the correct $y$ values in the table. | H is incorrect because using the equation $y=x+470$ does not generate the correct $y$ values in the table. | J is correct because using the equation $y=94 x$ generates the correct $y$ values in the table. |
| 17 | A is incorrect because the spinner can land on an even number 3 times out of 8 . So 3/8 multiplied by 120 times equals 45 , not 75 . | B is correct because the spinner can land on an even number 3 times out of 8 . So $3 / 8$ multiplied by 120 times equals 45. | C is incorrect because the spinner can land on an even number 3 times out of 8 . So $3 / 8$ multiplied by 120 times equals 45 , not 15 . | D is incorrect because the spinner can land on an even number 3 times out of 8 . So 3/8 multiplied by 120 times equals 45 , not 40 . |
| 18 | F is correct because the model represents $4 \mathrm{x}+12 \leq-8$, so 4 x $\leq-20$, and dividing both sides by 4 simplifies to $x \leq-5$. | G is incorrect because the model represents $4 x+12 \leq$ 8 , so $4 x \leq-20$, and dividing both sides by 4 simplifies to $x$ $\leq-5, \operatorname{not} x \leq 5$. | H is incorrect because the model represents $4 x+12 \leq$ 8 , so $4 x \leq-20$, and dividing both sides by 4 simplifies to $x$ $\leq-5, \operatorname{not} x \leq 1$. | $J$ is incorrect because the model represents $4 x+12 \leq$ 8 , so $4 x \leq-20$, and dividing both sides by 4 simplifies to $x$ $\leq-5$, not $x \leq-14$. |


| Item \# | Response A/F | Response B/G | Response C/H | Response D/J |
| :---: | :---: | :---: | :---: | :---: |
| 19 | $A$ is incorrect because the area of the semicircle + triangle is $A=(1 / 2)(\pi)(4)^{2}+$ $(1 / 2)(7)(8) \approx(1 / 2)(3.14)(4)^{2}+$ $(1 / 2)(7)(8)=53$, not 78 . | $B$ is incorrect because the area of the semicircle + triangle is $A=(1 / 2)(\pi)(4)^{2}+$ $(1 / 2)(7)(8) \approx(1 / 2)(3.14)(4)^{2}+$ $(1 / 2)(7)(8)=53$, not 81 . | C is incorrect because the area of the semicircle + triangle is $A=(1 / 2)(\pi)(4)^{2}+$ $(1 / 2)(7)(8) \approx(1 / 2)(3.14)(4)^{2}+$ $(1 / 2)(7)(8)=53$, not 106. | $D$ is correct because the area of the semicircle + triangle is A $\begin{aligned} & =(1 / 2)(\pi)(4)^{2}+(1 / 2)(7)(8) \approx \\ & (1 / 2)(3.14)(4)^{2}+(1 / 2)(7)(8)= \\ & 53 . \end{aligned}$ |
| 20 | F is incorrect because the monthly savings is $16 \%$ of 2,250 , which is 360 , so the statement is true. | G is incorrect because $35 \%$ of 2,250 is 787.5 and $3 \%$ of 2,250 is 67.5 for a total of 855 , which is less than 900, so the statement is true. | H is correct because 5\% of 2,250 is $112.5,6 \%$ of 2,250 is 135 , and $11 \%$ of 2,250 is 247.5 for a total of 495, not 485, so the statement is NOT true. | J is incorrect because $17.5 \%$ of 2,250 is 393.75 and $6.5 \%$ of 2,250 is 146.25 for a total of 540 , which is more than 530 , so the statement is true. |
| 21 | A is incorrect because the number of megabytes can be found using the proportion $264 / 528=35 / x$, which simplifies to $\mathrm{x}=70$, not 18 . | B is correct because the number of megabytes can be found using the proportion $264 / 528=35 / x$, which simplifies to $x=70$. | C is incorrect because the number of megabytes can be found using the proportion $264 / 528=35 / x$, which simplifies to $x=70$, not 8 . | D is incorrect because the number of megabytes can be found using the proportion $264 / 528=35 / x$, which simplifies to $x=70$, not 23 . |
| 22 | $\mathrm{F} ; 18$ is correct because the formula for volume of a triangular prism is $\mathrm{V}=\mathrm{Bh}$, so the area of the base can be found using $B(12)=216$, and dividing both sides by 12 simplifies to $\mathrm{B}=18$. | G; Students may have multiplied 216(12) $=2,592$, instead of dividing 216 by 12. |  |  |
| 23 | A is correct because $33 / 4$ bags times 125.3 square feet $=3.75(125.3)=469.875$. | B is incorrect because 3 3/4 bags times 125.3 square feet $=3.75(125.3)=469.875$, not 375.225. | C is incorrect because $33 / 4$ bags times 125.3 square feet $=3.75(125.3)=469.875$, not 407.225. | D is incorrect because 3 3/4 bags times 125.3 square feet $=3.75(125.3)=469.875$, not 418.502. |
| 24 | $F$ is incorrect because $2 x+(3 x$ -10) $+50=180$, which simplifies to $5 x=140$, and dividing both sides by 5 simplifies to $x=28$, not 25 . | G is incorrect because $2 \mathrm{x}+$ $(3 x-10)+50=180$, which simplifies to $5 x=140$, and dividing both sides by 5 simplifies to $x=28$, not 20 . | H is incorrect because $2 \mathrm{x}+$ $(3 x-10)+50=180$, which simplifies to $5 x=140$, and dividing both sides by 5 simplifies to $x=28$, not 10 . | J is correct because $2 \mathrm{x}+(3 \mathrm{x}$ 10) $+50=180$, which simplifies to $5 x=140$, and dividing both sides by 5 simplifies to $\mathrm{x}=28$. |
| 25 | A is incorrect because the graph shows that every 4 feet on the statue is equal to 4 inches on the model. | $B$ is incorrect because the graph shows that every 2 feet on the statue is equal to 12 inches on the model. | C is correct because the graph shows that every 1 foot on the statue is equal to 2 inches on the model. | D is incorrect because the graph shows that every 12 feet on the statue is equal to 2 inches on the model. |
| 26 | F is correct because $25 \%$ of 30 , which is 7.5 , is used on games and $5 \%$ of 30 , which is 1.5 , is used on research. The difference in hours is 7.5 - 1.5 $=6$. | G is incorrect because $25 \%$ of 30 , which is 7.5 , is used on games and $5 \%$ of 30 , which is 1.5 , is used on research. The difference in hours is 7.5-1.5 $=6$, not 20 . | H is incorrect because 25\% of 30 , which is 7.5 , is used on games and $5 \%$ of 30 , which is 1.5 , is used on research. The difference in hours is $7.5-1.5$ $=6$, not 7.5 . | J is incorrect because $25 \%$ of 30 , which is 7.5 , is used on games and $5 \%$ of 30 , which is 1.5 , is used on research. The difference in hours is 7.5-1.5 $=6$, not 1.5 . |
| 27 | A is incorrect because $30.16=$ $17.56+5 x$, which simplifies to $12.6=5 \mathrm{x}$, and dividing both sides by 5 simplifies to $\mathrm{x}=$ 2.52, not 6.032. | B is incorrect because $30.16=$ $17.56+5 x$, which simplifies to $12.6=5 \mathrm{x}$, and dividing both sides by 5 simplifies to $\mathrm{x}=$ 2.52, not 3.512. | C is incorrect because $30.16=$ $17.56+5 x$, which simplifies to $12.6=5 \mathrm{x}$, and dividing both sides by 5 simplifies to $\mathrm{x}=$ 2.52, not 12.6. | D is correct because $30.16=$ $17.56+5 x$, which simplifies to $12.6=5 x$, and dividing both sides by 5 simplifies to $\mathrm{x}=$ 2.52. |


| Item \# | Response A/F | Response B/G | Response C/H | Response D/J |
| :---: | :---: | :---: | :---: | :---: |
| 28 | F is incorrect because there are 32 possible seats at tables with red tablecloths out of a total of 96 possible seats. The probability is $32 / 96=1 / 3$, not 1/2. | G is correct because there are 32 possible seats at tables with red tablecloths out of a total of 96 possible seats. The probability is $32 / 96=1 / 3$. | H is incorrect because there are 32 possible seats at tables with red tablecloths out of a total of 96 possible seats. The probability is $32 / 96=1 / 3$, not 1/4. | J is incorrect because there are 32 possible seats at tables with red tablecloths out of a total of 96 possible seats. The probability is $32 / 96=1 / 3$, not 1/8. |
| 29 | A is incorrect because the tota surface area is the sum of all the rectangular areas found in the net which is $2(7.5)(11.5)+$ $2(3)(7.5)+2(3)(11.5)=286.5$, not 143.25. | B is incorrect because the total surface area is the sum of all the rectangular areas found in the net which is 2(7.5)(11.5) + $2(3)(7.5)+2(3)(11.5)=286.5$, not 241.5. | C is incorrect because the total surface area is the sum of all the rectangular areas found in the net which is 2(7.5)(11.5) $+2(3)(7.5)+2(3)(11.5)=$ 286.5, not 258.75 . | D is correct because the total surface area is the sum of all the rectangular areas found in the net which is $2(7.5)(11.5)+$ $2(3)(7.5)+2(3)(11.5)=286.5$. |
| 30 | F; 9127.50 is correct because $6 \%$ of 152,125 is $(0.06)(152,125)=9,127.5$. | G; Students may have placed the decimal point incorrectly in the grid as 912.75 . |  |  |
| 31 | A is incorrect because 180 12 frogs do not have spots, so using the proportion 168/180 $=$ $\mathrm{x} / 1,200$, which simplifies to $\mathrm{x}=$ 1,120 , not 80 . | B is incorrect because 180 12 frogs do not have spots, so using the proportion 168/180 = x/1,200, which simplifies to $\mathrm{x}=$ 1,120, not 168. | C is incorrect because 180 12 frogs do not have spots, so using the proportion 168/180 = x/1,200, which simplifies to $x=$ 1,120, not 1,280. | D is correct because 180-12 frogs do not have spots, so using the proportion 168/180 = $\mathrm{x} / 1,200$, which simplifies to $\mathrm{x}=$ 1,120. |
| 32 | $F$ is incorrect because the formula for area of a circle is $A$ $=\pi r^{2} \text {, so } A=\pi(8)^{2} \approx(3.14)(8)^{2}$ $=200.96, \text { not } 100.48 \text {. }$ | G is incorrect because the formula for area of a circle is A $=\pi r^{2} \text {, so } A=\pi(8)^{2} \approx(3.14)(8)^{2}$ $=200.96, \text { not } 50.24 \text {. }$ | H is correct because the formula for area of a circle is A $\begin{aligned} 2 & =\pi r^{2}, \text { so } A=\pi(8)^{2} \approx(3.14)(8)^{2} \\ & =200.96 . \end{aligned}$ | $G$ is incorrect because the formula for area of a circle is $A$ $=\pi r^{2} \text {, so } A=\pi(8)^{2} \approx(3.14)(8)^{2}$ <br> $=200.96$, not 803.84. |
| 33 | A is correct because 1.25 each for $x$ cups of lemonade minus 6.50 for supplies is more than 50 ; this can be represented by $1.25 x-6.50>$ 50. | B is incorrect because 1.25 each for $x$ cups of lemonade minus 6.50 for supplies is more than 50 , this can be represented by $1.25 x-6.50>$ 50 , not $1.25 x+6.50>50$. | C is incorrect because 1.25 each for x cups of lemonade minus 6.50 for supplies is more than 50; this can be represented by $1.25 x-6.50>$ 50 , not $1.0125 x-6.50>50$. | D is incorrect because 1.25 each for $x$ cups of lemonade minus 6.50 for supplies is more than 50 , this can be represented by $1.25 x-6.50>$ 50 , not $1.25+6.50 x>50$. |
| 34 | $F$ is incorrect because the distribution of the data for Team A and Team B are not approximately symmetrical. | G is incorrect because the median height of the players on Team $B$, which is 79 , is greater than the median height of the players on Team A, which is 78. | H is correct because the range of player heights on Team B, which is 12 , is greater than the range of player heights on Team A, which is 11. | J is incorrect because the mode height of the players on Team B, which is 80 , is greater than the mode height of the players on Team A, which is 78. |
| 35 | A; 70 is correct because if 1 centimeter represents 20 kilometers, then $3.5(20)=70$. | B; Students may have multiplied 3.5(20) incorrectly to get 60.5 . |  |  |
| 36 | F is incorrect because the amount of fabric can be found using $101 / 2-(21 / 2+41 / 4)=3$ $3 / 4$, not $41 / 4$. | $G$ is incorrect because the amount of fabric can be found using $101 / 2-\left(2 \frac{1}{2}+4 \frac{1}{4}\right)=3$ $3 / 4$, not $31 / 4$. | H is correct because the amount of fabric can be found using $101 / 2-\left(2^{1 / 2}+4^{1 / 4}\right)=3$ $3 / 4$. | $J$ is incorrect because the amount of fabric can be found using $101 / 2-\left(2^{1 / 2}+4 \frac{1}{4}\right)=3$ $3 / 4$, not $63 / 4$. |

## 2017 STAAR Grade 7 Math Rationales

| Item \# | Response A/F | Response B/G | Response C/H | Response D/J |
| :---: | :---: | :---: | :---: | :---: |
| 37 | A is correct because the probability of randomly selecting a daisy from Bouquet $S$, which is $13 / 30$, is less than the probability of selecting a daisy from Bouquet T , which is 13/13 or 1. | $B$ is incorrect because the probability of selecting a daisy in Bouquet S is $13 / 30$, not 1 | C is incorrect because the probability of randomly selecting a daisy from Bouquet S , which is $13 / 30$, is not equal to the probability of selecting a daisy from Bouquet T , which is 13/13 or 1. | D is incorrect because the probability of randomly selecting a daisy from Bouquet $S$ is $13 / 30$, not $1 / 3$. |
| 38 | F is incorrect because the total cost of the trip, y , is equal to the initial charge of 2.50 plus 2.65 multiplied by the number of miles, $x$. This situation is represented by the equation $y$ $=2.65 \mathrm{x}+2.50$, not $\mathrm{y}=2.50 \mathrm{x}+$ 2.65 . | G is incorrect because the total cost of the trip, y , is equal to the initial charge of 2.50 plus 2.65 multiplied by the number of miles, x . This situation is represented by the equation $y=2.65 x+2.50$, not $y=2.65(x+2.50)$. |  | J is correct because the total cost of the trip, y , is equal to the initial charge of 2.50 plus 2.65 multiplied by the number of miles, $x$. This situation is represented by the equation $y$ $=2.65 x+2.50$. |
| 39 | A is incorrect because similar figures are not necessarily the same size, but are the same shape. | $B$ is incorrect because similar figures are not necessarily the same size, but are the same shape. | C is correct because the corresponding angles in similar figures are congruent. | D is incorrect because the lengths of corresponding sides in similar figures are proportional. |
| 40 | Fis incorrect because the number of girls who like country music, which is 10 , is equal to the number of girls who like rap and rock music combined, which is $4+6=10$. | G is incorrect because the number of girls who like rock music, which is 6 , is equal to the number of boys who like rock music, which is 6 . | H is incorrect because the number of boys who like country music, which is 3 , is less than the number of boys who like rock music, which is 6. | $J$ is correct because the number of boys who like rock music, which is 6 , is more than the number of girls who like rap music, which is 4 . |

