## GRADE 8 MATH

FSA Practice Problems Answer Key


- DEPARTMENT -



## Grade 8 Mathematics

Turnkey Educator Resources
Equation Editor Item Tutorial
FSA Scientific Calculator
FSA Mathematics Reference Sheet Packet
Grade 8 Mathematics Test Item Specifications

TABLE OF CONTENTS

| Practice Test | Standard | Problems | Page |
| :---: | :---: | :---: | :---: |
| FSA Grade 8 Practice NONCALCULATOR |  |  | 2 |
|  | MAFS.8.EE.1.1 | 1,2 | 3 |
|  | MAFS.8.EE.1.2 | 3, 4 | 4 |
|  | MAFS.8.EE.1.3 | 5,6 | 4,5 |
|  | MAFS.8.EE.1.4 | 7,8 | 5 |
|  | MAFS.8.EE.3.8b | 9 | 6 |
|  | MAFS.8.F.1.1 | 10,11 | 6,7 |
|  | MAFS.8.F2.4 | 12,13 | 7,8 |
|  | MAFS.8.F.2.5 | 14 | 9 |
|  | MAFS.8.G.1.1a | 15,16 | 10,11 |
|  | MAFS.8.G.1.1b | 16 | 11 |
|  | MAFS.8.G.1.2 | 17,18 | 12 |
|  | MAFS.8.G.1.3 | 19-21 | 13,14 |
|  | MAFS.8.G.1.5 | 22,23 | 14,15 |
|  | MAFS.8.G.2.8 | 24 | 15 |
|  | MAFS.8.SP.1.1 | 25,26 | 16,17 |
|  | MAFS.8.SP.1.2 | 27,28 | 18,19 |
|  | MAFS.8.SP.1.3 | 29,30 | 20 |
|  | MAFS.8.NS.1.1 | 31,32 | 21 |
|  | MAFS.8.NS.1.2 | 33,34 | 22 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| FSA Grade 8 Practice CALCULATOR | MAFS.8.EE.2.5 | 1-3 | 23-25 |
|  | MAFS.8.EE.2.6 | 4-6 | 25,26 |
|  | MAFS.8.EE.3.7a | 7 | 26 |
|  | MAFS.8.EE.3.7b | 8 | 27 |
|  | MAFS.8.EE.3.8a | 9 | 27 |
|  | MAFS.8.EE.3.8b | 10 | 28 |
|  | MAFS.8.EE.3.8c | 11 | 28 |
|  | MAFS.8.F.1.2 | 12,13 | 29 |
|  | MAFS.8.F.1.3 | 14,15 | 30,31 |
|  | MAFS.8.G.1.4 | 16,17 | 31,32 |
|  | MAFS.8.G.2.6 | 18,19 | 32,33 |
|  | MAFS.8.G.2.7 | 20,21 | 33,34 |
|  | MAFS.8.G.2.8 | 22 | 34 |
|  | MAFS.8.G.3.9 | 23,24 | 35 |
|  | MAFS.8.SP.1.4 | 25,26 | 36,37 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## FSA Grade 8 Practice (NONCALCULATOR)

|  | MAFS.8.EE.1.1 |
| :---: | :---: |
| 1 | Select all of the expressions that are equivalent to $\left(2^{2}\right)^{4} \div 2^{2}$. <br> (A) $2^{10}$ <br> (B) $2^{4}$ <br> (C) $\left(2^{2}\right)^{3}$ <br> (D) $\frac{2^{6}}{2^{2}}$ <br> (E) $2^{6}$ |
| Answer | C, E |
|  | MAFS.8.EE.1.1 |
| 2 | An equation is shown. $\left(5^{a}\right)^{b}=5^{-8}$ <br> Select all of the possible values for $a$ and $b$. <br> (A) $a=-6, b=-2$ <br> (B) $a=-1, b=8$ <br> (C) $a=-6, b=2$ <br> (D) $a=-4, b=-4$ <br> () $a=-2, b=4$ |
| Answer | B, E |


|  | MAFS.8.EE.1.2 |
| :---: | :---: |
| 3 | What is the value of $x$ in the equation shown? $x^{3}=125$ $x=$ |
| Answer | 5 |
|  | MAFS.8.EE.1.2 |
| 4 | Which number has an irrational square root? <br> (A) $\frac{1}{9}$ <br> (B) 4 <br> (C) 0.01 <br> (D) 2 |
| Answer | D |
|  | MAFS.8.EE.1.3 |
| 5 | The number 0.0000657 can be estimated by 7 times a power of 10 . What is the power of 10 ? |
| Answer | -5 |




|  | MAFS.8.F.1.1 |
| :---: | :---: |
| 11 | Select all of the sets of ordered pairs that represent a function. <br> (A) $(2,6),(-7,-4),(10,3),(0,3)$ <br> (B) $(6,7),(-7,8),(-3,8),(3,-5)$ <br> (C) $(-2,-6),(-6,-10),(-6,7),(3,2)$ <br> (D) $(-9,-1),(3,-5),(-9,1),(5,9)$ <br> () $(-8,-6),(-5,5),(4,7),(4,-7)$ |
| Answer | A, B |
|  | MAFS.8.F.2.4 |
| 12 | A musician has a linear pricing plan. The total cost, $y$, of hiring the musician for $x$ hours is shown. <br> Part A. What is the hourly rate for the pricing plan? <br> \$ $\qquad$ <br> Part B. Complete the equation that represents the pricing plan. $y=\quad x+$ $\qquad$ |
| Answer | Part A: 65 Part B: $y=65 x+20$ |


|  | MAFS.8.F.2.4 |
| :---: | :---: |
| 13 | The graph shows the height $y$ of a giraffe at age $x$ months. <br> Select all of the true statements. <br> (A) The equation $y=6 x+0.25$ represents the giraffe's height over time. <br> (B) The rate of change is 0.25 ft per month. This means that at 2 months, the giraffe is 0.5 ft tall. <br> (c) The initial value is 6 ft . This means that the giraffe was 6 ft tall when he was born. <br> (D) When he is 3 years old, the giraffe will be 15 ft tall. <br> () When he is 3 years old, the giraffe will be 6.75 ft tall. |
| Answer | C, D |



|  | MAFS.8.G.1.1a |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15 | Pentagon pentagon <br> Match each | th its le | vertex | flected | vertical | roduce |
|  |  | 7 cm | 4 cm | 6 cm | 3 cm | 5 cm |
|  | MN | (A) | (B) | (c) | ( ${ }^{\text {a }}$ | (®) |
|  | NO | (F) | ( ${ }^{\text {a }}$ | ①+ | (1) | (1) |
|  | $O P$ | (®) | (1) | (1) | (1) | ( |
|  | $P Q$ | (®) | ( |  | (5) | (T) |
|  | MQ | (1) | (1) | (1) | * | (1) |
| Answer | C, G, N, T, U |  |  |  |  |  |


|  | MAFS.8.F.G.1.1a, MAFS.8.G.1.1b |
| :---: | :---: |
| 16 | Rectangle $A B C D$ and its transformation $E F G H$ are shown. <br> Select all of the transformations of rectangle $A B C D$ that can produce rectangle $E F G H$. <br> (A) A reflection over a vertical line and a translation. <br> (B) A rotation about point $D$. <br> (c) A rotation about a point between the two rectangles. <br> (D) A reflection over a horizontal line. <br> (E) A vertical and horizontal translation. |
| Answer | A, C, E |


|  | MAFS.8.G.1.2 |
| :---: | :---: |
| 17 | A sequence of transformations maps Figure 1 onto Figure 2. <br> Figure 2 <br> Figure 1 <br> Which sequence could have been used? <br> (A) A 90-degree rotation clockwise, then a translation up and left. <br> (B) A reflection over a horizontal line, then a translation left. <br> (c) A reflection across a vertical line, then a translation up. <br> (D) A translation left and up. |
| Answer | B |
|  | MAFS.8.G.1.2 |
| 18 | Select all of the sequences of transformations that always maintain congruence. <br> (A) A translation and then a rotation. <br> (B) A rotation and then a translation. <br> (c) A translation and then a reflection. <br> (D) A rotation and then a reflection. <br> (E) A reflection and then a translation. <br> (®) A reflection and then a rotation. |
| Answer | A, B, C, D, E, F |




|  | MFAS.8.G.1.5 |
| :---: | :---: |
| 23 | Select all of the statements that are true about $\triangle J K L$ and $\Delta L M N$. <br> (A) They have only one pair of congruent angles. <br> (B) The triangles are similar. <br> (C) $m \angle J K L=m \angle L N M$ <br> (D) $m \angle K J L=65^{\circ}$ <br> (®) $m \angle L N M=58^{\circ}$ |
| Answer | A, D, E |
|  | MFAS.8.G.2.8 |
| 24 | Krystal lives 12 miles south of the school. Howard lives 5 miles east of the school. How far does Howard walk if he takes the shortest path to Krystal's house? <br> mi |
| Answer | 13 |


|  | MFAS.8.G.SP.1.1 |
| :---: | :---: |
| 25 | The scatter plot shows the number of subscribers a sewing video channel has in relation to the number of videos created. <br> How can this association be described? <br> (A) The association is positive, non-linear, and has an outlier. <br> (B) The association is positive, linear, and has an outlier. <br> (C) The association is positive, linear, and without outliers. <br> (D) The association is negative, linear, and has an outlier. |
| Answer | B |


|  | MFAS.8.SP.1.1 |
| :---: | :---: |
| 26 | A chef is calculating if it is cheaper (per person) to cook for more people at once. The scatter plot shows cost per person to cook a meal in relation to the number of people being served that meal. <br> Select the correct description for the general trend of the plot. <br> (A) As the number of people increases, the cost per meal increases. <br> (B) As the number of people decreases, the cost per meal decreases. <br> © As the number of people increases, the cost per meal stays the same. <br> (D) As the number of people increases, the cost per meal decreases. |
| Answer | D |


|  | MFAS.8.SP.1.2 |
| :---: | :---: |
| 27 | Which graph represents the line of best fit for the scatter plot? |
|  | (A) |
|  | (B) |
|  | (C) |
|  | (D) |
| Answer | D |


|  | MFAS.8.SP.1.2 |
| :---: | :---: |
| 28 | Can you use a trend line to describe the relationship between the two sets of data for this graph? Explain. <br> (A) Yes, because there is a negative linear association, although it is weak. <br> (B) No, because no line could be drawn that passes through all of the points on the scatter plot. <br> (c) No, because there is no linear association. <br> (D) Yes, because there is a positive linear association, although it is weak. |
| Answer | D |


|  | MFAS.8.SP.1.3 |  |
| :---: | :---: | :---: |
| 29 | The data$\boldsymbol{x}$ <br> 5 <br> 5 <br> 3 <br> 6 <br> The equ this situ <br> (A) T <br> (B) T <br> (c) F \$2 <br> (D) For | e table show the sale price of homes with different numbers of bedrooms. <br> of the trend line is $y=25,789 x+30,000$. What does the slope represent in <br> dicted sale price of a house with 0 bedrooms is $\$ 25,789$. <br> dicted sale price of a house with no bedrooms is $\$ 30,000$. <br> additional bedroom a house has, the sale price is predicted to increase by <br> additional bedroom a house has, the sale price is predicted to increase by |
| Answer |  |  |
|  | MFAS.8.SP.1.3 |  |
| 30 | The scatter plot shows how much water 7 people drink (in glasses) given different temperatures (in degrees Fahrenheit). The equation of the trend line $y=0.09 x-3.77$. <br> If a person drank 3 glasses of water, what was the temperature? Round your answer to the nearest tenth, if needed. $\qquad$ ${ }^{\circ} \mathrm{F}$ |  |
| Answer | 75.2 |  |


|  | MFAS.8.NS.1.1 |
| :---: | :---: |
| 31 | Which number represents $1 . \overline{18}$ written as a fraction? <br> (A) $\frac{59}{50}$ <br> (B) $\frac{107}{90}$ <br> (C) $\frac{118}{100}$ <br> (D) $\frac{13}{11}$ |
| Answer | D |
|  | MFAS.8.NS.1.1 |
| 32 | Select all numbers that are rational. <br> (A) $9 . \overline{812}$ <br> (B) $4 \pi$ <br> (C) $\sqrt{11}$ <br> (D) 7.4 <br> (巨) $-\frac{748}{3}$ |
| Answer | A, D, E |


|  | MFAS.8.NS.1.2 |
| :---: | :---: |
| 33 | In which list are the numbers in order from least to greatest? <br> (A) $\frac{5}{6}, \sqrt{5}, 4.57, \pi^{2}$ <br> (B) $\frac{5}{6}, 4.57, \sqrt{5}, \pi^{2}$ <br> (c) $\sqrt{5}, \frac{5}{6}, 4.57, \pi^{2}$ <br> (D) $\pi^{2}, 4.57, \sqrt{5}, \frac{5}{6}$ |
| Answer | A |
|  | MFAS.8.NS.1.2 |
| 34 | Which value is closest to the point shown on the number line? <br> (A) $-\pi$ <br> (B) $-\sqrt{5}$ <br> (c) $-\sqrt{10}$ <br> (D) -2 |
| Answer | B |

## FSA Grade 8 Practice (CALCULATOR)

|  | MAFS.8.EE.2.5 |
| :---: | :---: |
| 1 | Lehana and Shani are having a competition to see who can type a 1,000-word essay faster. The results are shown. <br> Select all of the true statements. <br> Shani's Typing Speed <br> (A) Lehana will finish typing in approximately 11 minutes and 7 seconds. <br> (B) Lehana's unit rate is 90 words per minute. <br> © A graph of Lehana's words per minute would have a greater slope. <br> (D) Shani will finish typing in 41 minutes and 40 seconds. <br> (®) Lehana will finish typing first. |
| Answer | C, D, E |


|  | MAFS.8.EE.2.5 ${ }^{\text {围 }}$ |
| :---: | :---: |
| 2 | This question has two parts. <br> Water is poured into a large bucket at a rate of 2.4 gallons in 5 minutes. <br> Part A. Which graph models the situation? <br> (B) <br> (D) <br> Part B. At what rate is the bucket filling with water? Enter your answer as a decimal number. |
| Answer | Part A: B, Part B: 0.48 |


|  | MAFS.8.EE.2.5 ${ }^{\text {每 }}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | Juan and Ca The number equation $y=$ <br> The number <br> Hours <br> Number of Planes <br> How many | are er air er air lanes <br> 0.25 2 <br> aper <br> ore pl | makin lanes <br> lanes <br> Made <br> 0.5 <br> 4 <br> plan <br> nes | paper that Ju <br> Carme <br> 0.75 <br> 6 <br> s does <br> hour | irplanes for n makes in <br> ta makes is <br> he faster $p$ |
| Answer | 2 |  |  |  |  |
|  | MAFS.8.EE.2.6葍 |  |  |  |  |
| 4 | Write an equ answers as $y=$ $\qquad$ | hat re ls. $4$ $x+$ | rese | ts the s | ame relatio |
| Answer | $y=x+20$ |  |  |  |  |


|  | MAFS.8.EE.2.6葍 |
| :---: | :---: |
| 5 | A plant requires 4 cups of water when it is first brought inside and then 2 cups of water each week for the rest of its life. Write a linear equation for the number of cups of water used after $x$ months. $y=\quad x+$ $\qquad$ |
| Answer | $y=2 x+4$ |
|  | MAFS.8.EE.2.6棈 |
| 6 | What is the equation of the line representing the proportional relationship in the table? Enter your answers as decimals. $y=$ $\qquad$ $x+$ $\qquad$ |
| Answer | $y=1 / 2 x+0$ |
|  | MAFS.8.EE.3.7a ${ }^{\text {\# }}$ |
| 7 | Select all equations that have exactly one solution. <br> (A) $2 x-4=x+1+x$ <br> (B) $6 x-2 x=4 x$ <br> (C) $5 x-2=2 x+6-x$ <br> (D) $2 x+6=x$ <br> (E) $4 x-x=9$ |
| Answer | C, D, E |


|  | MAFS.8.EE.3.7b ${ }^{\text {( }}$ |
| :---: | :---: |
| 8 | Solve the equation shown for $x$. $4 x+8+\frac{1}{2}(2 x-4)=6 x+6-4 x$ <br> (A) No solution <br> (B) $x=\frac{2}{3}$ <br> (c) $x=0$ <br> © <br> $x=-3$ |
| Answer | C |
| MAFS.8.EE.3.8a |  |
| 9 | A graph of a system of two equations is shown. <br> What is the solution of the system? |
| Answer | $(1,2)$ |


|  | MAFS.8.EE.3.8b ${ }^{\text {包 }}$ |
| :---: | :---: |
| 10 | Select all of the systems of equations that do not have exactly one solution. <br> (A) $\begin{aligned} & -4 x+6 y=-10 \\ & 5 x-6 y=11 \end{aligned}$ <br> (B) $\begin{aligned} & 3 x+8 y=0 \\ & 3 x+8 y=14 \end{aligned}$ <br> (C) $\begin{aligned} & y=2 x+1 \\ & y=2 x-1 \end{aligned}$ <br> () $\begin{aligned} & 2 y+2=4 x \\ & y=2 x-1 \end{aligned}$ <br> © ${ }^{\text {E }}$ $\begin{aligned} & y=-2 x+2 \\ & y=2 x+3 \end{aligned}$ |
| Answer | B, C, D |
|  | MAFS.8.EE.3.8c国 |
| 11 | At Katya's fruit stand, a basket of strawberries costs $\$ 4$ and a basket of raspberries costs $\$ 9$. In one morning, Katya sells 96 baskets for $\$ 644$. How many baskets of strawberries were sold? <br> baskets |
| Answer | 44 |


|  | MAFS.8.F.1.2 ${ }^{\text {亚 }}$ |
| :---: | :---: |
| 12 | The savings accounts of two people can be modeled by linear functions. Zahava has $\$ 200$ and saves $\$ 20$ per week. Andre's savings are shown in the graph. Select the true statement. <br> (A) Zahava has less money initially. The rate of change of her account is less than that of Andre's. <br> (B) Zahava has less money initially. She saves more per week than Andre. <br> © Zahava has a greater initial amount saved. She saves less per week than Andre. <br> (D) Zahava has a greater initial amount. The rate of change of her account is greater than that of Andre's. |
| Answer | C |
|  | MAFS.8.F.1.2 ${ }^{\text {画 }}$ |
| 13 | Select the statement that accurately compares the two linear functions. <br> Function 1 <br> Function 2 $y=\frac{5}{3} x+3$ <br> (A) Function 2 has the greatest rate of change and the greatest initial value. <br> (B) Function 2 has the greatest rate of change and Function 1 has the greatest initial value. <br> (c) Function 1 has the greatest rate of change and the greatest initial value. <br> (D) Function 1 has the greatest rate of change, and Function 2 has the greatest initial value. |
| Answer | D |


|  | MAFS.8.F.1.3 ${ }^{\text {國 }}$ |
| :---: | :---: |
| 14 | Select all of the functions that are linear. <br> (A) $5 x+3 y=9$ <br> (B) <br> (C) $y=(9+4) x+4$ <br> (D) <br> (E) |
| Answer | A, C, E |


|  | MAFS.8.F.1.3 ${ }^{\text {国 }}$ |
| :---: | :---: |
| 15 | Laila runs 3 mi the first week. The next week, she runs 6 mi . Every week after, she runs 3 mi more than the week before. <br> Select all of the true statements. <br> (A) This is a nonlinear relationship because it cannot be written as an equation of the form $y=m x+b$. <br> (B) This is a nonlinear relationship. If the number of miles Laila ran per week was graphed, it would be a curve. <br> (C) This relationship contains the point $(3,6)$. <br> (D) This relationship can be modeled as a linear function and can be expressed as $y=3 x$, where $x$ is the number of weeks and $y$ is the number of miles Laila runs. <br> (E) This is a linear relationship because if the number of miles Laila ran each week was graphed, it is a straight line. |
| Answer | D, E |
|  | MFAS.G.8.1.4 ${ }^{\text {國 }}$ |
| 16 | Which sequence of transformations results in figures that are similar but not congruent? <br> (A) $270^{\circ}$ rotation, reflection across the $x$-axis. <br> (B) Translation 3 units up, $180^{\circ}$ rotation. <br> (c) Reflection across the line $y=2$, translation 2 units left. <br> (D) Translation 3 units up, dilation with a factor of 3 . |
| Answer | D |


|  | MFAS.8.G.1.4 ${ }^{\text {星 }}$ |
| :---: | :---: |
| 17 | Is $\triangle D E F$ similar to $\triangle G H I$ ? Explain. Yes, because $\triangle G H$ I can be obtained by dilating $\triangle D E F$ by a scale factor of $\frac{1}{2}$ and then translating to the right. <br> (B) No, because $\triangle G H I$ cannot be obtained from $\triangle D E F$ through a sequence of rotations, translations, reflections, and dilations. <br> (c) Yes, because $\triangle G H I$ can be obtained by dilating $\triangle D E F$ by a scale factor of 2 and then translating to the right. <br> (D) No. The triangles are not the same size, so they are not similar. |
| Answer | C |
|  | MFAS.8.G.2.6 ${ }^{\text {國 }}$ |
| 18 | Which set of side lengths forms a right triangle? <br> (A) 5 in., 12 in., 11 in. <br> (B) $2 \mathrm{~cm} ; 4 \mathrm{~cm} ; 5 \mathrm{~cm}$ <br> (C) $6 \mathrm{~m} ; 8 \mathrm{~m} ; 5 \mathrm{~m}$ <br> (D) $9 \mathrm{ft} ; 12 \mathrm{ft} ; 15 \mathrm{ft}$ |
| Answer | D |


|  | MFAS.8.G.2.6 ${ }^{\text {囲 }}$ |
| :---: | :---: |
| 19 | A right triangle has a hypotenuse of length 25 inches and a leg of length 15 inches. What is the length of the remaining side? $\qquad$ in. |
| Answer | 20 |
|  | MFAS.8.G.2.7 ${ }^{\text {國 }}$ |
| 20 | The size of a television screen is usually described by the length of its diagonal. If a 32" television has a width of 28 inches, what is the height of the screen? Round your answer to the nearest tenth of an inch. <br> inches |
| Answer | 15.5 |



|  | MFAS.8.G.3.9 ${ }^{\text {星 }}$ |
| :---: | :---: |
| 23 | A three-dimensional figure has a volume of 314 cubic centimeters rounded to the nearest cubic centimeter. Select all of the figures that match this description. <br> Use 3.14 for $\pi$. <br> (A) A cone with a radius of 10 cm and a height of 3 cm . <br> (B) A cylinder with a radius of 1 cm and a height of 10 cm . <br> (C) A sphere with a diameter of 4.217 cm . <br> (D) A sphere with a radius of 4.217 cm . <br> (E) A cylinder with a radius of 4.47 cm and a height of 5 cm . |
| Answer | A, D, E |
|  | MFSA.8.G.3.9 ${ }^{\text {星 }}$ |
| 24 | If you inflate a beach ball with 14,130 cubic inches of air, what will its diameter be? Use 3.14 for $\pi$. <br> inches |
| Answer | 30 |


|  | MFAS.8.SP.1.4 ${ }^{\text {國 }}$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 25 | Naomi polled 50 students at school on their favorite animal. |  |  |  |  |  |  |
|  |  | Cats |  | Dogs | Tota |  |  |
|  | Fourth-Grade Students | 8 |  | 16 |  |  |  |
|  | Fifth-Grade Students | 12 |  | 14 |  |  |  |
|  | Total |  |  |  |  |  |  |
|  | For each value described | selec | the corr | correct p | percent | age (ro | unded |
|  |  | 47\% | 33\% | 20\% | 40\% | 54\% | 52\% |
|  | Percentage of fourth-grade students that preferred cats. | (A) | (B) | © | (1) | (E) | ${ }^{\text {® }}$ |
|  | Percentage of students that were fifth-grade students. | ( ${ }^{\text {a }}$ | $\stackrel{(H)}{ }$ | (1) | (1) | ® | (L) |
|  | Percentage of fifthgrade students that preferred dogs. | (1) | (1) | © |  | © | ® |
|  | Percentage of students that preferred cats. | (5) | (T) | (1) | (1) | (1) | ® |
| Answer | B, L, Q, V |  |  |  |  |  |  |


|  | MFAS.8.SP.1.4 ${ }^{\text {围 }}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 26 | An amusement park surveys 260 customers to help them decide whether to add a rollercoaster or bumper cars to the park. |  |  |  |
|  |  | Like Bumper Cars | Do Not Like Bumper Cars | Total |
|  | Like Rollercoasters | 123 | 45 | 168 |
|  | Do Not Like Rollercoasters | 60 | 32 | 92 |
|  | Total | 183 | 77 | 260 |
|  | What is the best numbers to the nea <br> (A) The amusem surveyed like <br> (B) The amusem surveyed like <br> (C) The amusem surveyed like <br> (D) The amusem surveyed like | cision based on arest percent. <br> nt park should rollercoasters <br> nt park should bumper cars and <br> nt park should bumper cars a <br> nt park should bumper cars a | the relative freq <br> add a rollercoas and $35 \%$ like bum <br> add bumper cars, $17 \%$ of custom <br> add bumper cars 30\% like roller <br> add bumper cars 65\% like roller | uencies in the table? Round all <br> , because $65 \%$ of the customers er cars. <br> because $23 \%$ of the customers ers like roller coasters. <br> because $70 \%$ of the customers oasters. <br> because $70 \%$ of the customers oasters. |
| Answer | D |  |  |  |

