Name Date

Countdown to the EOG

6 Weeks Until the Test

Monday

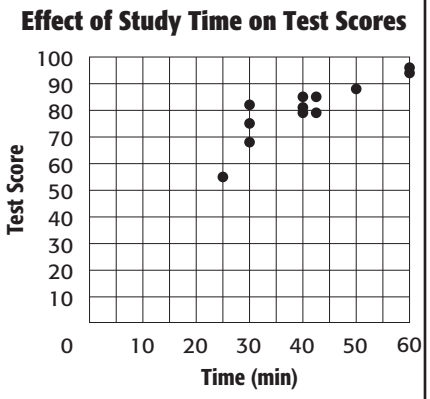
1. The data displayed represent what type of relationship?

A a positive correlation where the y values are exactly predicted by the line of best fit

B a negative correlation where the y values are exactly predicted by the line of best fit

C a positive correlation where the y values are approximately predicted by the line of best fit

D a negative correlation where the y values are approximately predicted by the line of best fit



Tuesday

2. Which list orders the numbers from ***least to greatest***?

A $2, 2.5, \frac{7}{3}, \sqrt{7}$

B $2, \frac{7}{3}, 2.5, \sqrt{7}$

C $\sqrt{7}, \frac{7}{3}, 2.5, 2$

D $\sqrt{7}, 2.5, \frac{7}{3}, 2$

Wednesday

3. Which expressions is equivalent to the expression below?

$3j + b + 4b + s + 2j + 5b + 2s$

A $5j + 10b + 3s$

B $5j + 10b + 2s$

C $5j + 9b + 3s$

D $5j + 9b + 2s$

Thursday

4. A park has an area of $4x(2x + 5)$ square miles. Which expression is equivalent to $4x(2x + 5)$?

A $6x + 5$

B $11x$

C $8x^2 + 4x$

D $8x^2 + 20x$

Friday

5. A toy box in the shape of a cube has a volume V of 8 cubic feet. What is true about the length s of an edge of the toy box?

A $s = 8^3$

B $s = \sqrt[3]{8}$

C $s = 8^2$

D $s = \sqrt{8}$

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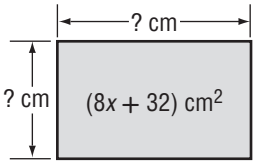
Name Date

Countdown to the EOG

5 Weeks Until the Test

Monday

1. The drawing shows an area model of $(8x + 32)$ square centimeters. Which pair of expressions represents possible dimensions in centimeters of the model?



A x , $7x + 32$

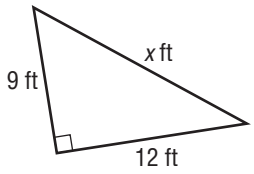
B $8, x + 24$

C $8, x + 4$

D $4x + 16, 4x + 16$

Tuesday

2. What is the value of x in the triangle below?



A $\sqrt{21}$

B 15

C 21

D 225

Wednesday

3. A rectangular box is used for shipping. If all of the dimensions of the box are doubled, which statement is true about the new box?

A The volume is twice the volume of the original box.

B The surface area is twice the surface area of the original box.

C The volume is eight times the volume of the original box.

D The surface area is eight times the surface area of the original box.

Thursday

4. What is the slope of the graph of $4x + 3y = 10$?

A $-\frac{4}{3}$

B $-\frac{3}{4}$

C $\frac{3}{4}$

D $\frac{4}{3}$

Friday

5. Solve for k:

$$3(k + 2) = 5k + 10$$

A -2

B $-\frac{1}{2}$

C $\frac{1}{2}$

D 2

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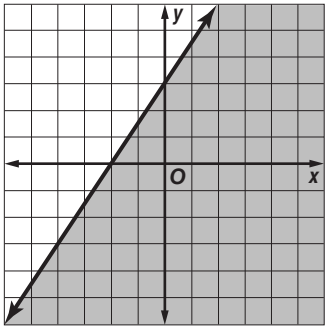
Name Date

Countdown to the EOG

4 Weeks Until the Test

Monday

1. Which linear inequality is shown by the graph?



A $y < 1.5x + 3$

B $y > 1.5x + 3$

C $y \leq 1.5x + 3$

D $y \geq 1.5x + 3$

Tuesday

2. Which number is included in the solution to $6k + 3 < 8k + 10$?

A -5

B -4

C $-\frac{7}{2}$

D -3

Wednesday

3. Which is the ***best*** estimate of the length of one side of a a square garden with an area of 58 square feet?

A between 6 and 7 feet

B between 7 and 8 feet

C between 8 and 9 feet

D between 9 and 10 feet

Thursday

4. At a store, a notebook costs \$3 and a pen costs \$1. Mrs. Martinez spent \$20 for n notebooks and p pens. The equation $3n + p = 20$ represents the situation. Which ordered pair (n, p) represents how many items Mrs. Martinez bought?

A (3, 7)

B (3, 9)

C (3, 11)

D (3, 13)

Friday

5. Which statement ***best*** describes the similarities of the graphs $6x + 3y = 20$ and $y = -2x + 5$?

A The x-intercepts are the same.

B The y-intercepts are the same.

C The lines are parallel.

D The graphs are identical.

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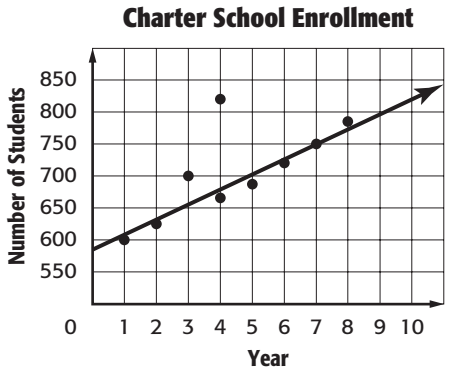
Name Date

Countdown to the EOG

3 Weeks Until the Test

Monday

1. The enrollments for the first eight years of a charter school are shown in the graph. Based on the line of best fit shown, what would be the school enrollment in Year 10?



A 850 students
B 835 students
C 810 students
D 780 students

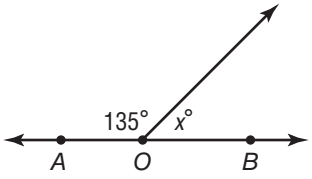
Tuesday

2. Ortiz played a game in which he needed to toss a number cube twice. What is the probability that Ortiz would toss a 4 then a 3?

A 28%
B 27%
C 3%
D 2%

Wednesday

3. Angle AOB is a straight angle.



What is the value of x?

A 35
B 45
C 135
D 180

Thursday

4. The ages of 17 people attending a movie are shown below.

23	21	24	16	15	25	36	9	27
28	30	65	38	41	33	20	3	

Which age(s) can be considered an outlier?

A 3
B 3 and 9
C 3 and 65
D 65

Friday

5. A toy repair shop has replacement tires for bikes and kiddie cars. The equation $20 = 2x + 4y$ shows the total number of in-stock tires for x bikes and y kiddie cars. Which aspect of the graph of the equation represents the number of kiddie cars when there are no bikes?

A slope
B x-intercept
C y-intercept
D unit rate

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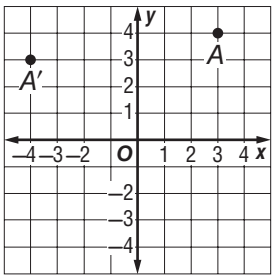
Name Date

Countdown to the EOG

2 Weeks Until the Test

Monday

1. In the graph at the right, point A' is the image produced by rotating point A about the origin. What angle of rotation was used to produce point A'?



A 90° counterclockwise
B 180° counterclockwise
C 270° counterclockwise
D 360° counterclockwise

Tuesday

2. At a carnival game, a wheel has 12 equal-sized sections. Landing on one of the sections wins the player an extra spin. What is the chance of a player winning an extra spin two times in a row?

A $\frac{1}{6}$ **C** $\frac{1}{132}$
B $\frac{1}{12}$ **D** $\frac{1}{144}$

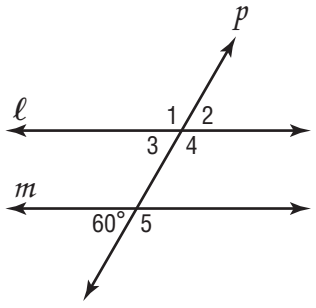
Wednesday

3. The diagonal of a television screen measures 42 inches. The width of the television screen measures 21 inches. What is the ***approximate*** length of the television screen?

A 1,323 in. **C** 36 in.
B 63 in. **D** 21 in.

Thursday

4. In the figure, ℓ and m are parallel lines.



Which statement is true?

A Angle 1 measures 30°.
B Angle 1 measures 60°.
C Angle 3 measures 30°.
D Angle 3 measures 60°.

Friday

5. What is the equation of the line that contains the points (3, 7), and (0, 2)?

A $y = \frac{3}{5}x + 2$
B $y = \frac{5}{3}x + 2$
C $y = 3x + 2$
D $y = 10x + 2$

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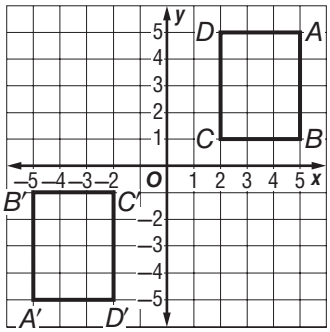
Name Date

Countdown to the EOG

1 Weeks Until the Test

Monday

1. Rectangle $ABCD$ in the graph at the right represents the original location of the bed in Abileen's room. Rectangle $A'B'C'D'$ represents its new location. What angle of rotation about the origin did she use to rotate her bed?



A 90° clockwise

B 180° counterclockwise

C 270° clockwise

D 270° counterclockwise

Tuesday

2. The yearly salaries of seven employees at a department store are listed below.

$26,000 $28,500 $32,000 $37,500 $37,500 $46,500 $49,000

Which statistical measure is ***most*** affected if the $49,000 employee is promoted to a position with a salary of $65,000?

A mean

B median

C mode

D interquartile range

Wednesday

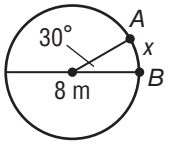
3. Which proportion can be used to find the length x of arc AB?

A $\frac{x}{8\pi} = \frac{30}{360}$

B $\frac{x}{8\pi} = \frac{360}{30}$

C $\frac{x}{16\pi} = \frac{30}{360}$

D $\frac{x}{16\pi} = \frac{360}{30}$



Thursday

4. Salina graphed a data set to make a scatter plot and determined that the line of best fit goes through (0, 2) and (3, −1). What is the equation of her line of best fit for the data?

A $y = x + 2$

B $y = x - 2$

C $y = -x + 2$

D $y = -x - 2$

Friday

5. Which set contains only irrational numbers?

A $\{2, 5, 7, 10\}$

B $\left\{\frac{1}{2}, \frac{2}{3}, 1\frac{3}{4}, \frac{15}{2}\right\}$

C $\{0.25, \sqrt{36}, \sqrt{90}, \pi\}$

D $\{\sqrt{5}, \sqrt{10}, \sqrt{30}, \sqrt{37}\}$

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