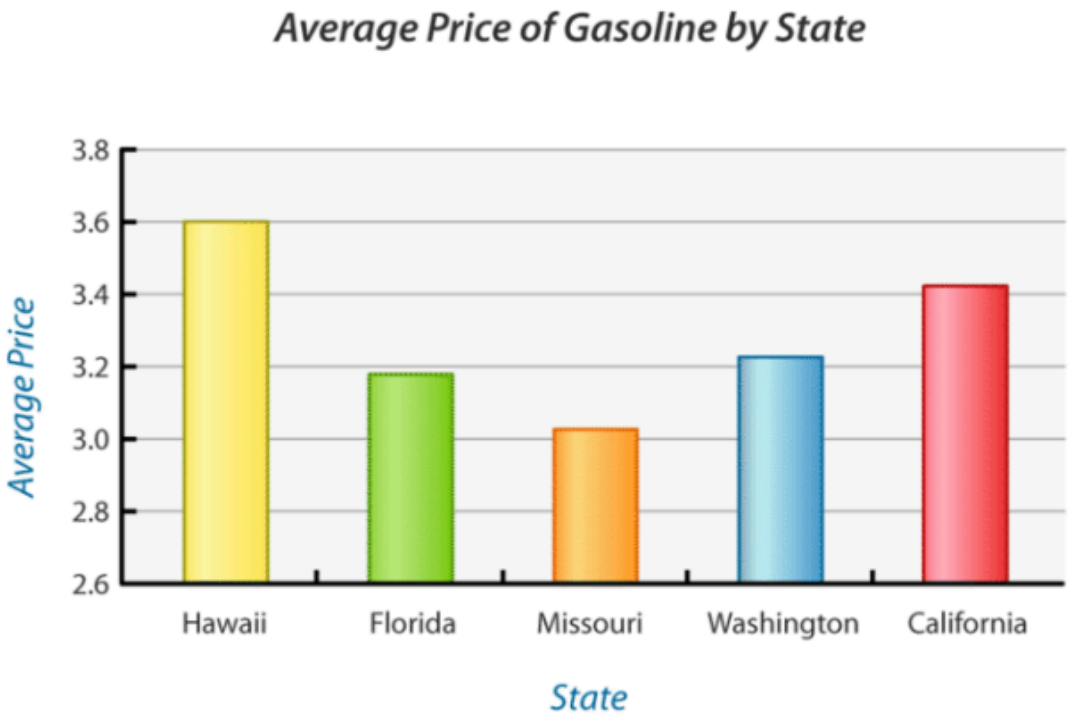
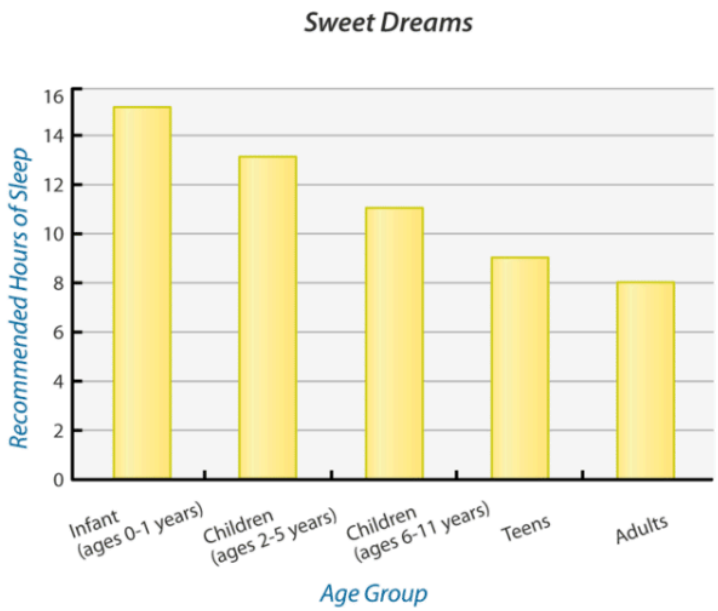
Test Prep Section 1: Graphs, Tables, and Ledgers

Question	Resources
1) Use the graph below to determine the state with the highest average gas price  a) Hawaii b) Florida c) Missouri d) Washington e) California	Bar Charts and Bar Graphs Explained
2) Using the same graph (above), determine the state with the lowest average gas price a) Hawaii b) Florida c) Missouri d) Washington e) California	Bar Charts and Bar Graphs Explained

3) Answer the following questions using the graph below  Which of the following statements is FALSE a) Teens need more sleep than adults, but less than infants b) Teens need less sleep than children ages 2-5, but more than children ages 6-11 c) Teens need less sleep than children ages 2-5, but more than adults d) Teens need between 9-10 hours of sleep per night	Solving problems with bar graphs 2 | ...
4) Using the graph above, how many more hours of sleep are recommended for infants than adults? a) 3 hours b) 6 hours c) 7 hours d) 5 hours	Solving problems with bar graphs 2 | ...
5) Using the graph above, how many less hours of sleep do teens need than children aged 2-5 years? a) 4 hours b) 5 hours c) 3 hours d) 2 hours	Solving problems with bar graphs 2 | ...

6) Answer the questions using the table below.

Weekend Attendance at Soccer

	M	Tu	W	Th
Field 1	550	110	390	230
Field 2	420	260	140	680
Field 3	130	180	240	170

How many people attended soccer games on field 1 all 4 days?

a) 1,000
b) 1,100
c) 1,260
d) 1,280

Reading Tables - Corbettmaths

Watch until 7:30
Learn to Construct and Interpret Two...

7) How many more people played soccer on field 2 than field 3 over the course of 4 days?

a) 1500
b) 720
c) 780
d) 880

Reading Tables - Corbettmaths
Learn to Construct and Interpret Two...

8) How many more people played soccer on Thursday than Tuesday?

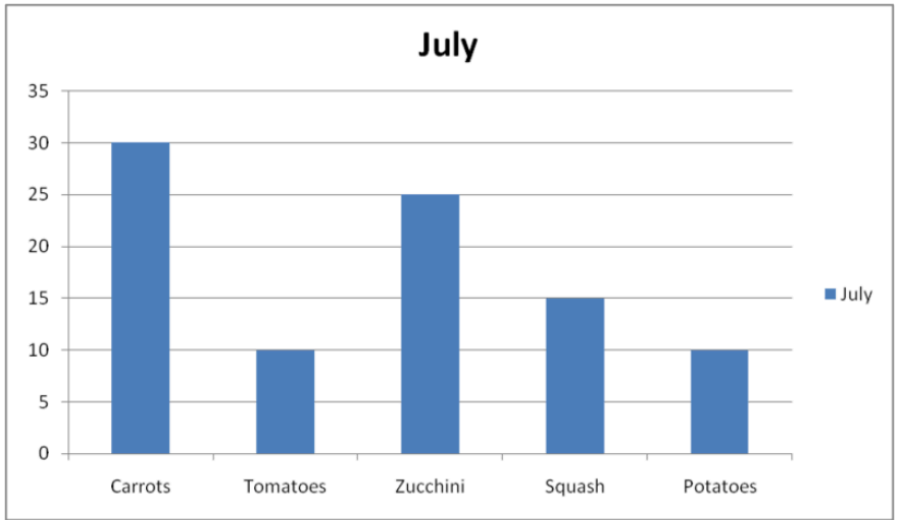
a) 530
b) 550
c) 630
d) 1,080

Reading Tables - Corbettmaths
Learn to Construct and Interpret Two...

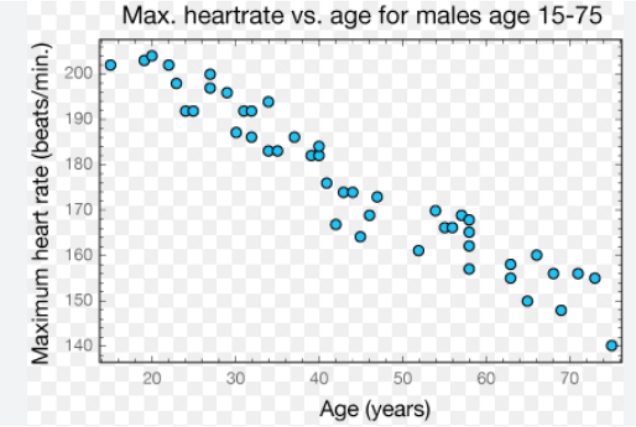
9) How many total players attended soccer games on Wednesday?

a) 1280
b) 770
c) 1500
d) 720

Reading Tables - Corbettmaths
Learn to Construct and Interpret Two...

The graph below shows crops harvested during July.  10) According to the graph in the previous problem, what is the average harvest across zucchini, squash, and carrots. a) 70 b) 23.3 c) 26.6 d) 25	Finding the mean from a bar graph
11) According to the graph in the previous problem, what was the total number of potatoes, zucchini, and tomatoes harvested? a) 45 b) 55 c) 60 d) 90	Bar Charts and Bar Graphs Explained
12) According to the graph in the previous problems, how many more zucchini were harvested than squash? a) 5 b) 10 c) 15 d) 20	Bar Charts and Bar Graphs Explained

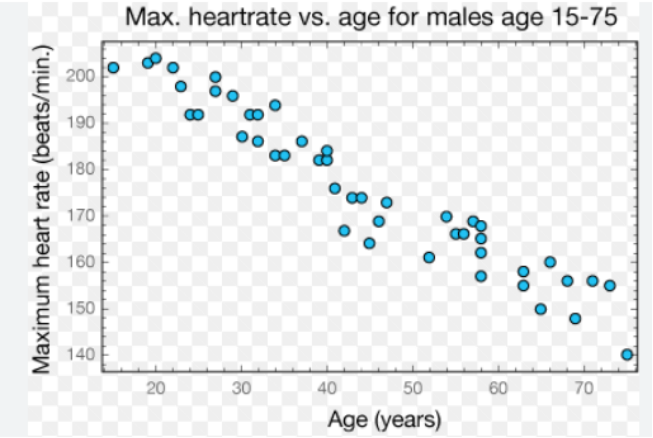
13) What connections can you make from the graph below?



a) The amount of heart beats per minute is not related to age
b) The amount of heart beats per minute decreases as age increases
c) There is no correlation between heart beats per minute and age
d) The amount of heart beats per minute remains static in years 30-40

Scatter Plots & Lines of Fit | HSS.ID.B.6 🖤

14) Using the graph below, answer the following question:

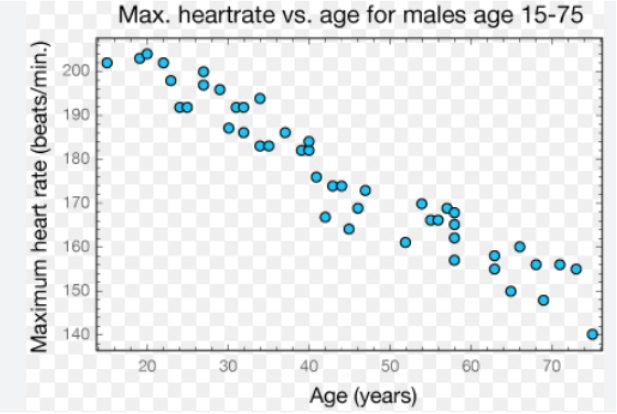


Which age group experiences the lowest heart rate max?

a) 40-50
b) 50-60
c) 60-70
d) 70-80

Scatter Plots & Lines of Fit | HSS.ID.B.6 🖤

15)Using the graph below, answer the following question:



Which age group experiences the highest maximum heart rate?

a) 10-20 years old
b) 20-30 years old
c) 30-40 years old
d) 40-50 years old

Scatter Plots & Lines of Fit | HSS.ID.B.6 🖤

16) According to the bank statement, what was the total amount of money withdrawn from the account during the statement period?

FIRST BANK OF WIKI
1425 James St.
Cityville, MI 40000

CHECKING ACCOUNT STATEMENT
Page 1 of 1

JOHN JONES
1643 Dundas St W Apt 27
Cityville, MI 40000

Statement period	Account No.
2018-10-09 to 2018-11-09	0005-123-456-7

Date	Description	Ref.	Withdrawals	Deposits	Balance
2018-10-08	Previous Balance				0.55
2018-10-14	Payroll Deposit - HOTEL			694.81	695.36
2018-10-14	Online Bill Payment - MASTERCARD	9685	200.00		495.36
2018-10-16	ATM Withdrawal - INTERAC	3990	20.00		475.36
2018-10-16	Fees - INTERAC		3.00		472.36
2018-10-20	POS DEB Purchase - ELECTRONICS	1975	2.99		469.37
2018-10-21	Online Bill Payment - AMEX	3314	300.00		169.37
2018-10-22	ATM Withdrawal - FIRST BANK	6400	100.00		69.37
2018-10-23	POS DEB Purchase - SUPERMARKET	1559	29.08		40.29
2018-10-24	POS DEB Refund - ELECTRONICS	1975		2.99	43.28
2018-10-27	Online Bill Payment - ENERGY CO.	2475	28.74		14.54
2018-10-28	Payroll Deposit - HOTEL			694.81	709.35
2018-10-30	Online Funds Transfer - From SAVINGS	2620		50.00	759.35
2018-11-03	Online Bill Payment - INSURANCE	3948	146.67		612.68
2018-11-06	Check No. - 409		100.00		512.68
2018-11-07	Check No. - 410		710.49		-197.81
2018-11-08	Fees - OVERDRAFT		35.00		-232.81
2018-11-08	Fees - MONTHLY MAINTENANCE		5.00		-237.81
	****Totals****		1,680.97	1,442.61	

*See below for enlarged image

2.1 Reading Bank Statement

a) $1,442.61 b) -$237.81 c) $694.81 d) $1,680.97	
17) According to the bank statement (above), how many deposits were made during the statement period? a) 2 b) 3 c) 4 d) 5	2.1 Reading Bank Statement
18) According to the bank statement (above), what was the initial balance before any deposits or withdrawals were made? a) $694.81 b) $695.36 c) $0.55 d) -$237.81	2.1 Reading Bank Statement
19) According to the bank statement (above), how many checks were written during the statement period? a) 2 b) 4 c) 13 d) 10	2.1 Reading Bank Statement
20)According to the bank statement (above), how much money was in the account at the end of the statement period? a) $0.55 b) $1,680.97 c) $1,442.61 d) -$237.81	2.1 Reading Bank Statement

Use the bank statement (below) to answer questions 21-24.

Bank statement

Fina Bank — Statement Date: 30 April 2020
Account Holder: P Tamar
Type of Account: Cheque
Branch: Pretoria 671 200

Date	Transaction	Debit	Credit	Balance
1/04/2020	Opening balance			- 6 482.20
1/04/2020	Salary deposit		17 000	10 517.80
5/04/2020	ATM cash	500		10 017.80
6/04/2020	EFT school fees	2 200		7 817.80
12/04/2020	Transaction fee	13.42		7 804.38
16/04/2020	Edgars debit	1 168.35		6 636.03
21/04/2020	Food Shop –debit	454.20		6 181.83
27/04/2020	Cash deposit		2 000	8 181.83
30/04/2020	Closing balance			8 181.83

21) According to the bank statement (above), what was the opening balance?

a) -$6,482.20
b) $6, 482.20
c) $8, 181.83
d) $17,000

Bank Statement Example Maths Lit

22) According to the bank statement (above), what was the closing balance?

a) -$6,482.20
b) $6, 482.20
c) $8, 181.83
d) $17,000

Bank Statement Example Maths Lit

23) According to the bank statement (above), how many deposits were made?

a) 2
b) 5
c) 7
d) 9

Bank Statement Example Maths Lit

24) According to the bank statement (above), how many debits occurred? a) 2 b) 5 c) 7 d) 9	Bank Statement Example Maths Lit

*See next page for answer key

Practice Test Section 1 Answer Key

Question 1	A	Question 13	B
Question 2	C	Question 14	D
Question 3	B	Question 15	A
Question 4	C	Question 16	D
Question 5	A	Question 17	C
Question 6	D	Question 18	C
Question 7	C	Question 19	A
Question 8	A	Question 20	D
Question 9	B	Question 21	A
Question 10	B	Question 22	C
Question 11	A	Question 23	A
Question 12	B	Question 24	B

FIRST BANK OF WIKI

1425 James St.
Cityville, MI 40000

CHECKING ACCOUNT STATEMENT

JOHN JONES
1643 Dundas St W Apt 27
Cityville, MI 40000

Statement period	Account No.
2018-10-09 to 2018-11-09	0005-123-456-7

Date	Description	Ref.	Withdrawals	Deposits	Balance
2018-10-08	Previous Balance				0.55
2018-10-14	Payroll Deposit - HOTEL			694.81	695.36
2018-10-14	Online Bill Payment - MASTERCARD	9685	200.00		495.36
2018-10-16	ATM Withdrawal - INTERAC	3990	20.00		475.36
2018-10-16	Fees - INTERAC		3.00		472.36
2018-10-20	POS DEB Purchase - ELECTRONICS	1975	2.99		469.37
2018-10-21	Online Bill Payment - AMEX	3314	300.00		169.37
2018-10-22	ATM Withdrawal - FIRST BANK	6400	100.00		69.37
2018-10-23	POS DEB Purchase - SUPERMARKET	1559	29.08		40.29
2018-10-24	POS DEB Refund - ELECTRONICS	1975		2.99	43.28
2018-10-27	Online Bill Payment - ENERGY CO.	2475	28.74		14.54
2018-10-28	Payroll Deposit - HOTEL			694.81	709.35
2018-10-30	Online Funds Transfer - From SAVINGS	2620		50.00	759.35
2018-11-03	Online Bill Payment - INSURANCE	3948	146.67		612.68
2018-11-06	Check No. - 409		100.00		512.68
2018-11-07	Check No. - 410		710.49		-197.81
2018-11-08	Fees - OVERDRAFT		35.00		-232.81
2018-11-08	Fees - MONTHLY MAINTENANCE		5.00		-237.81
	****Totals****		1,680.97	1,442.61	

Test Prep Section 2: Fractions, Percents, Word Problems, Probability

Question	Resources
1) Add the fractions below: $\frac{4}{7} + \frac{2}{7} =$ a) 7/7 b) 6/7 c) 2/7 d) 1	After attempting the problem on your own, watch the video and check your work: Adding Fractions with Common Denominators (Step by Step)...
2) Add the fractions below: $\frac{1}{9} + \frac{5}{9}$ a) 6/9 b) ⅔ c) 6/18 d) 1/3	Adding Fractions with Common Denominators (Step by Step)...
3) Add the fractions below: $\frac{3}{4} + \frac{2}{8} =$ a) 5/12 b) 1 c) 1 ⅛ d) 5/8	Adding fractions with unlike denominators introduction (video) | Khan Academy Adding fractions with unlike denominators (video) | Khan Academy Add fractions with unlike denominators (practice) | Khan Academy
4) Subtract the fractions below: $4\frac{3}{5} - 2\frac{1}{5} =$ a) 2 ⅖	Subtracting mixed numbers with like denominators (video) | Khan Academy Add and subtract mixed numbers (no regrouping) (practice) | Khan Academy

b) 3 ⅖ c) 4 ⅘ d) 3 1/5	
5) Subtract the fractions below: $5\frac{3}{8} - 1\frac{1}{8} =$ a) 4 2/8 b) 3 ½ c) 4 ¼ d) 4 2/1	How to Subtract Mixed Numbers with Like Denominators | T...
6)Multiply the fractions below: $5\frac{2}{3} \times \frac{3}{7}$ a) 1 3/10 b) 5 6/21 c) 2 3/7 d) 3 5/10	After attempting the problem on your own, watch the video and check your work: Multiplying Mixed Numbers and Fractions | Math with Mr. J
7) $3\frac{1}{4} \times \frac{2}{5} =$ a) 3 2/20 b) 1 3/10 c) 3 ⅝ d) 15 ⅘	Multiplying Mixed Numbers and Fractions | Math with Mr. J Multiplying mixed numbers by whole numbers (video) | Khan Academy Multiply mixed numbers and whole numbers (practice) | Khan Academy
8) Divide the fractions: $\frac{4}{7} \div 6 =$ a) 24/7 b) 2/21	Dividing a fraction by a whole number (video) | Khan Academy Divide fractions by whole numbers (practice) | Khan Academy After trying the problem on your own, watch the video and check

c) 4/42 d) 6/42	your work: How to Divide a Fraction by a Whole Number | Math with Mr. J
9) Divide the fractions: $\frac{5}{6} \div 3$ a) 5/18 b) 15/6 c) 15/18 d) 18/5	Dividing Fractions by Whole Numbers Using Models | Math with Mr. J
10) Jose made ⅓ of the cupcakes at a party. If there were 21 cupcakes, how many did Jose make? a) 18 b) 14 c) 7 d) 42	Solve word problems involving multiplying a fraction by a w... How to Find a Fraction of a Whole Number | Fractions of Wh...
11) If you have to build 100 boxes, and you already built 25, what percent of boxes do you have left to build? a) 125% b) 80% c) 75% d) 25%	Math Antics - What Are Percentages?
12) If you have to bake 100 cupcakes, and you have baked 24, what percent of cupcakes have you already baked? a) 124% b) 24% c) 76% d) 75%	Math Antics - What Are Percentages? \
13) 15 is 75% of what number? a) 60 b) 20 c) 45 d) 50	Learn how to find 15 is 75% of what value

14) 96 is 80% of what number? a) 192 b) 116 c) 120 d) 180	Solving percent problems (video) | Khan Academy Equivalent expressions with percent problems (practice) | Khan Academy
15) 45 is 18% of what number? a) 450 b) 250 c) 4,500 d) 2000	Percent Problem - Use a Percent to Find the Whole
16) 20% of what number is 80? a) 40 b) 400 c) 800 d) 180	Solving percent problems (video) | Khan Academy Equivalent expressions with percent problems (practice) | Khan Academy
17) What is the best estimate of 8.2×35 a) 200 b) 287 c) 290 d) 300	Estimating decimal multiplication (video) | Khan Academy Estimating with multiplying decimals (practice) | Khan Academy
18) If gas is $4.24 per liter, how much will 38 liters cost? a) 152 b) $16.12 c) $1,611.20 d) $161.12	Multiplication word problem: carrots (video) | Khan Academy Multiplication and division word problems (practice) | Khan Academy Multiply a Whole Number by a Decimal | Math with Mr. J
19) If a pint of ice cream is $6.49, how much will 12 pints cost? a) $80.77 b) $76.88	Multiply a Whole Number by a Decimal | Math with Mr. J

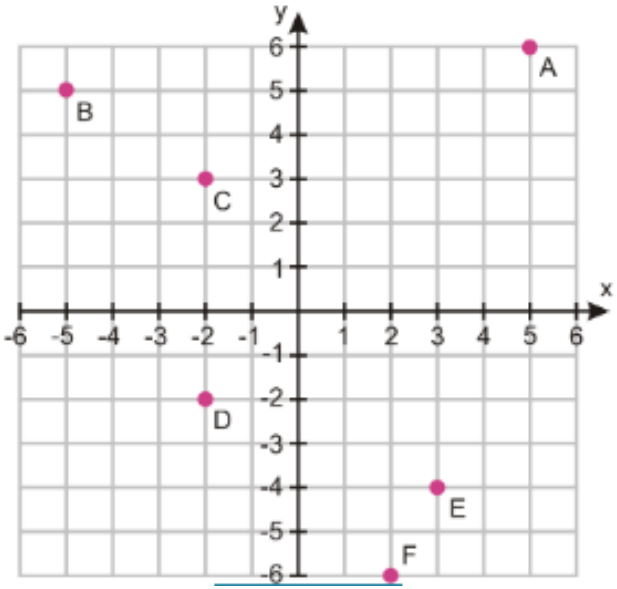
c) $77.88 d) $87.88	
20) According to the following information, what is the average temperature for three recorded lab specimens? June 1 98℉ June 2 63 ℉ June 3 64℉ a) 260 b) 75 c) 225 d) 112.5	Averages (video) | Khan Academy How to Find the Average | Math with Mr. J Calculating the mean (practice) | Khan Academy
21) A bag of 48 marbles contains an equal amount of red marbles, blue marbles, green marbles, and yellow marbles. What is the probability you pull a yellow marble from the bag? a) 4/48 b) 1/2 c) 1/48 d) 1/4	Probability explained | Independent and dependent events | Probability and Statistics | Khan Academy

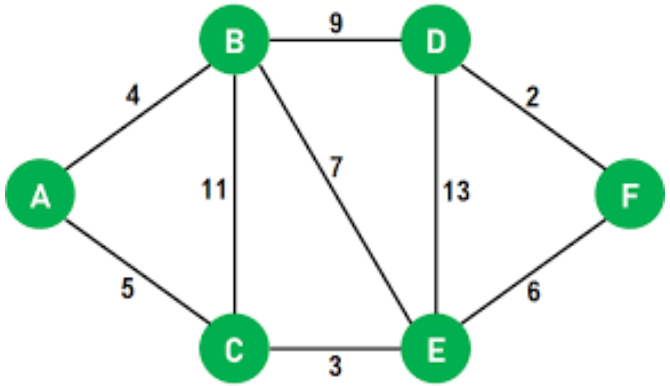
Test Prep Section 2 Answer Key

Question 1	C	Question 16	B
Question 2	B	Question 17	C
Question 3	B	Question 18	D
Question 4	A	Question 19	C
Question 5	C	Question 20	B
Question 6	C	Question 21	D
Question 7	B		
Question 8	B		
Question 9	A		
Question 10	C		
Question 11	D		
Question 12	C		
Question 13	B		
Question 14	C		
Question 15	B		

Test Prep Section 3: Algebra, Geometry, and the Coordinate Plane

Question	Resources
1) A sports rental business rents skateboards at a base price of $10 plus $3 dollars per day. They also rent bikes at a base price of $16 and $2 per day. For how many days is it cheaper to rent skateboards than bikes? a) 2 days b) 3 days c) 4 days d) 5 days	We can find this answer by setting up and solving an equation. We can set up an inequality to represent the number of days it is cheaper to rent skateboards than bikes. $10 + $3d < $16 + $2d -$2d -$2d $10 + d < $16 -$10 -$10 d<6 So, it is less expensive to rent skateboards than bikes for 5 days or less.
2) A music company rents instruments to students. Trombones are a base rate of $32 plus $4 per day. Violins are rented at a base rate of $38 plus $2 per day. For how many days is it less expensive to rent trombones than violins? a) 10 b) 8 c) 6 d) 2	Set up the equation as 32 + 4d < 38 + 2d
3) What is the prime factorization for 80? a) 10 x 8 b) 2 x 5 x 8 c) 2 x 2 x 2 x 2 x 5 d) 5 + 5 x 8	Prime factorization | Factors and multiples | Pre-Algebra | K...
4) What is the prime factorization for 24? a) 2 x 3 x 2 x 2 b) 2 x 3 x 4 c) 3 x 4 x 12 d) 12 x 2	Prime Factorization | Math with Mr. J
5) 19 + (-13) =	Introduction to integers

a) 32 b) -32 c) 6 d) -6	Adding Integers: Adding a Positive and a Negative Integer | P...
6) 10 + (-6) = a) 4 b) -4 c) 16 d) -16	Adding Integers: Adding a Positive and a Negative Integer | P...
For #7-11 use the coordinate plane below:  	Coordinate plane examples | Linear equations and functions ...
7) Use the Grid Graph to locate the coordinates of point A a) (6, 5) b) (5, 6) c) (-5, 6) d) (-6, 5)	Coordinate plane examples | Linear equations and functions ... Coordinate plane examples | Linear equations and functions | 8th grade | Khan Academy
8) Point B a) (-5, 5) b) (5, -5)	Coordinate plane examples | Linear equations and functions ... Plotting a point (ordered pair) (video) | Khan Academy

c) (5, 5) d) (-5, -5)	
9) How many quadrants are in the graph grid? a) One b) Two c) Three d) Four	Graphing points & naming quadrants (practice) | Khan Academy https://youtu.be/VhNkWdLGpmA Coordinate plane parts review (article) | Khan Academy
10) Point C a) (-2, 3) b) (-3,2) c) (2, 3) d) (-2,-3)	Plotting a point (ordered pair) (video) | Khan Academy
11) Which point is located at coordinates (3, -4)? a) C b) D c) E d) F	Plotting a point (ordered pair) (video) | Khan Academy
12) What is the shortest distance from A to F  a) A to C to B to E to F b) A to B to E to F c) A to C to E to F	Use a highlighter and trace the different paths in different colors, adding the length of the segments as you go.

d) A to B to D to F	
13) Solve for Q Q- 15= 63 a) 78 b) 48 c) -78 d) -48	How to solve equations of the form ax = b | Linear equations | Algebra I | Khan Academy
14) Solve for P -8P= 48 a) -6 b) 6 c) -384 d) 384	How to solve equations of the form ax = b | Linear equations | Algebra I | Khan Academy
15) What is the x- intercept of the line 3x + 7y= 21 a) 63 b) 7 c) 18 d) 10	Introduction to intercepts | Algebra I | Khan Academy
16) Which of the following is equivalent to $\frac{d^5}{d^3}$ a) D8 b) D2 c) D53 d) d15	Multiplying & dividing powers (integer exponents) | Mathematics I | High School Math | Khan Academy
17) Which of the following is equivalent to $13x + 5y^2 + 3y^2 - 2x$ a) $15x + 8y^4$	simplifying polynomial expressions by combining like terms

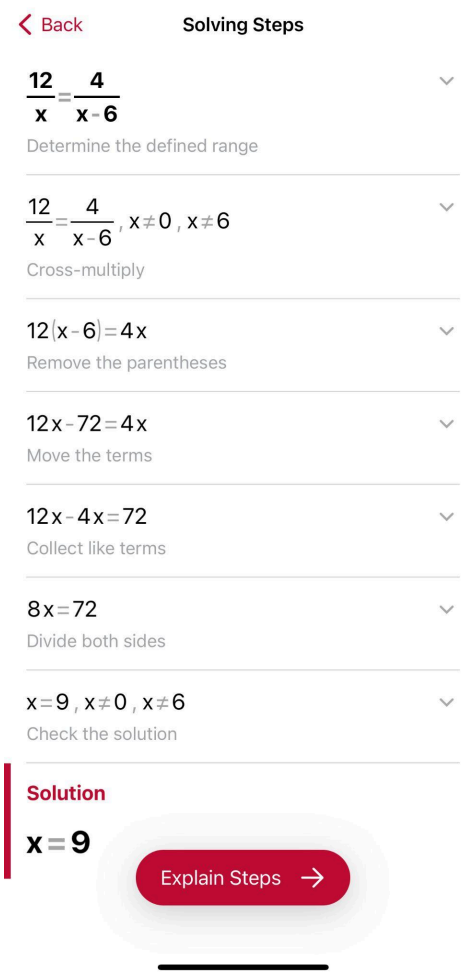
b) $11x + 8y$ c) $11x + 8y^2$ d) $11x + 8y^4$	
18) Which one of the following is equivalent to the equation shown below: $3 - 7x > 5(4x - 1)$ a) 4 > 27x b) x> 8/27 c) x< 8/27 d) 4< 27x	How Do You Solve an Inequality With Variables on Both Sides? | Virtual Nerd Introduction to solving an equation with variables on both si...
19) Solve the equation shown below 5x-4= 2x + 11 a) x= -5 b) X = 3 c) x= 3 d) x= 5	
20) Which one of the following is equivalent to the equation shown below? $8x^3 - 2x^2 - 4x$ a) $2x(4x^2 - x - 2)$ b) $x(8x^2 - 2x - 4)$ c) $4x(2x^2 - 4x - 1)$ d) $2(2x^2 - 4x - 1)$	Factoring Out The Greatest Common Factor
21) Which of the following is equivalent to (-8j+2a) + (-5a-4j) a) 12j+7a	Intro to combining like terms (video) | Khan Academy

b) -12j-3a
c) 12j-3a
d) -4j-3a

22) Which is equivalent to the equation shown below?

$$\frac{12}{x} = \frac{4}{x-6}$$

a) x= 48
b) x= 9
c) x= 72
d) X = 12

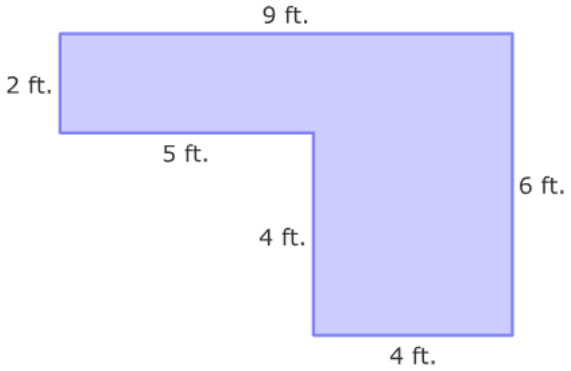
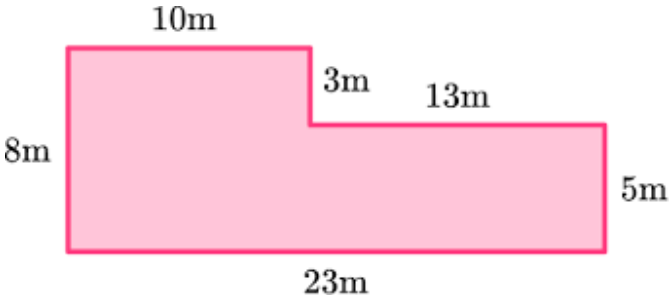


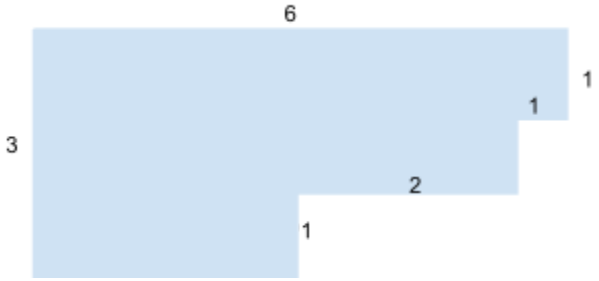
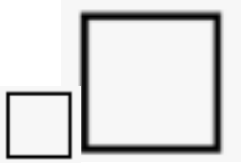
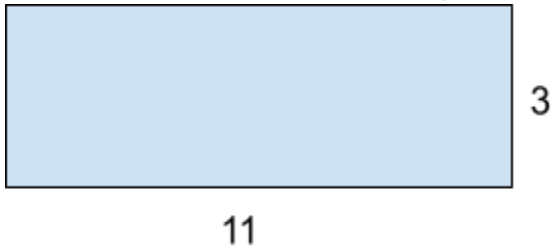
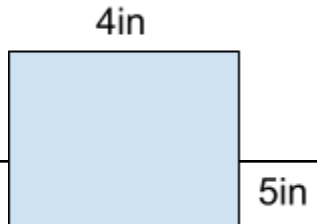
23) How many acres are in a field that is 609 feet long and 250 feet wide.

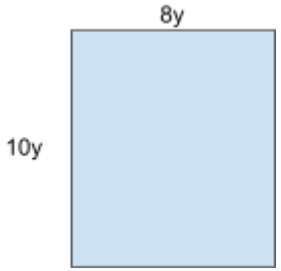
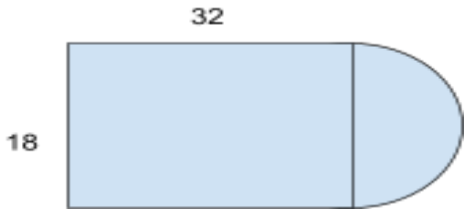
1 acre =43,560 ft.
a) 1

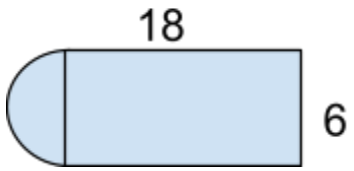
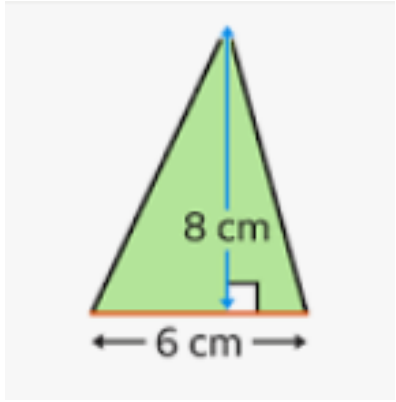
Sq ft to Acres ¦¦ Area Conversion

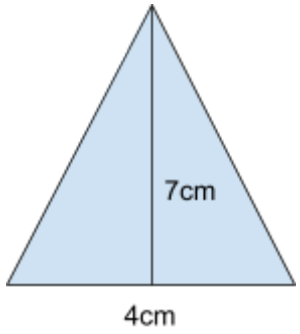
*Divide total by 43,560

b) 2 c) 3.5 d) 4	
24) Find the perimeter of the shape below  a) 22 b) 28 c) 30 d) 34	Introduction to perimeter | Measurement | Pre-Algebra | Kh...
25) Find the perimeter:  a) 39 b) 49 c) 54 d) 62	Introduction to perimeter | Measurement | Pre-Algebra | Kh...

26)Find the perimeter of the shape below  a) 12 b) 13 c) 14 d) 16	After attempting the problem on your own, watch the video below: Perimeter and Area of Irregular Shapes
27) The area of the small square is 1 square unit. What is the best estimate in square units of the larger square?  a) 4 b) 3 c) 2 d) 1	Lesson 03 Units and Square Units - SimpleStep Learning
28) Find the area of the rectangle below:)  a) 12 b) 33 c) 28 d) 333	
29) Find the area of the rectangle below:  	After attempting to solve on your own, watch the video below: Area of a Rectangle | How to Calculate Area of a Rectangle | M...

a) 9 b) 20 c) 18 d) 38	
30) A living room has a width of 10 yards and a length of 8 yards. What is the area of the living room? a) 36 b) 18 c) 80 d) 98 	After attempting to solve on your own, watch the video below: Area of a Rectangle | How to Calculate Area of a Rectangle | M...
31) Find the area (Area of circle = $\pi \cdot r^2$ and $\pi \approx 3.14$)  a) $703.17 ft^{2.}$ b) $576 ft^2$ c) $127.17 ft^2$ d) $254.34 ft^2$	Area of a Composite Figure - Combination Rectangle and Se... After attempting to solve on your own, watch the video below: Area of Composite Figures by @MathTeacherGon
32) Find the area	4.After attempting to solve on your own, watch the video below:

(Area of circle = $\pi \cdot r^2$ and $\pi \approx 3.14$)  a) $108 ft^2$. b) $28.26 ft^2$. c) $122.13 ft^2$ d) $3.14 ft^2$	Area Of Combined Shapes - Rectangle And Semi-Circle
33) What is the area of this triangle (Area = $\frac{1}{2}bh$)  a) 14 b) 48 c) 24 d) 96	Area of Triangle 1
34) Find the area of this triangle (Area = $\frac{1}{2}bh$)	Area of Triangle 1



a) 11
b) 14
c) 28
d) 56

Practice Test Section 3 Answer Key

Question 1	D	Question 13	A	Question 25	D
Question 2	D	Question 14	A	Question 26	C
Question 3	C	Question 15	B	Question 27	A
Question 4	A	Question 16	B	Question 28	B
Question 5	C	Question 17	C	Question 29	B
Question 6	A	Question 18	C	Question 30	C
Question 7	B	Question 19	D	Question 31	A
Question 8	A	Question 20	A	Question 32	C
Question 9	D	Question 21	B	Question 33	C
Question 10	A	Question 22	B	Question 34	B
Question 11	C	Question 23	C		
Question 12	C	Question 24	C		