

14 Time

B Solve problems involving the conversion of measures of time

A jogger runs for 20 minutes each day. How many hours does he spend running in 4 days?

2 hours

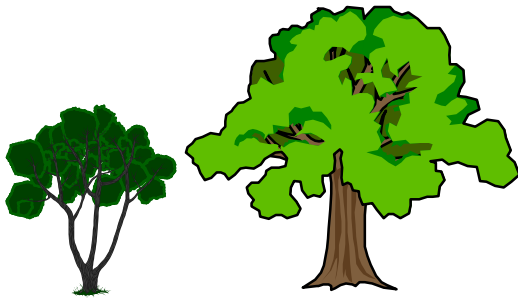
1 hour and 5 minutes

1 hour and 30 minutes

1 hour and 20 minutes*

15 Approximate Measures

A Estimate lengths and areas



If the shorter tree is about 5 feet tall, the height of the taller tree is ABOUT

15 ft

12 ft

8 ft*

6 ft

16 Customary and Metric Measures

A Solve problems involving the conversion of measures of length

A basketball player is 209 centimeters tall. How many meters is that?

2 meters and 9 centimeters*

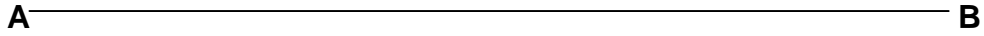
5 meters and 8 centimeters

20 meters and 9 centimeters

29 meters

16 Customary and Metric Measures

B Measure length to the metric or customary unit specified



Use your centimeter ruler to measure the length of the line segment between points **A** and **B** to the NEAREST half centimeter.

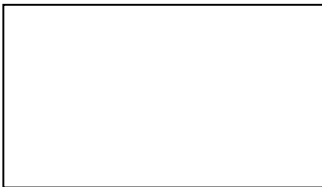
Length: _____

16 Customary and Metric Measures

C Measure and determine perimeters or areas

Use your centimeter ruler to measure the lengths of each side of this rectangle. Label the lengths of the sides and determine the PERIMETER of the rectangle.

PERIMETER = ____



16 Customary and Metric Measures

D Identify appropriate metric or customary units of measure (length, capacity, mass) for a given situation

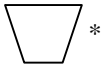
The length of the floor in a gym is BEST measured in

- meters.*
- centimeters.
- kilometers.
- liters.

17 Geometric Shapes and Properties

A Identify and draw geometric shapes and figures

Which shape is a quadrilateral?



17 Geometric Shapes and Properties

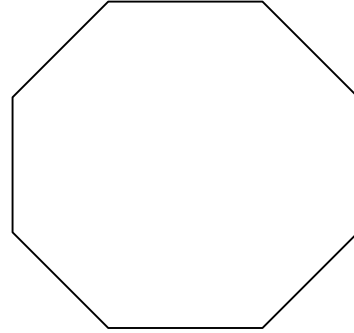
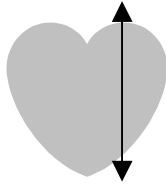
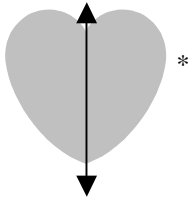
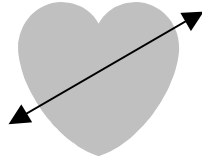
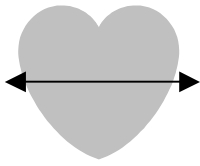
B Draw, describe and classify geometric shapes and figures

Draw a trapezoid. Then explain why the figure you drew is a trapezoid.

18 Spatial Relationships

A Identify and draw lines of symmetry

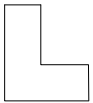
Which picture shows a line of symmetry?



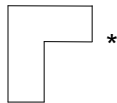
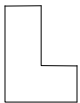
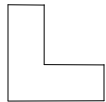
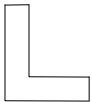
Draw exactly 2 lines of symmetry on this figure.

18 Spatial Relationships

B Identify congruent figures



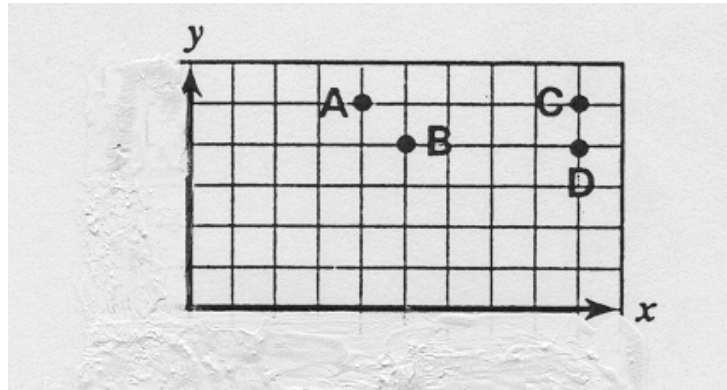
Which of these shapes appears to be congruent to the figure above?



18 Spatial Relationships

C Locate points on grids

What letter is located at (5,4)?



- A
- B *
- C
- D

19 Tables, Graphs and Charts

A Identify correct information from graphs, tables and charts

Class	Number of Cans collected
Mr. Green	652
Mr. Gomez	507
Ms. Castro	553
Ms. Powell	605

How many classes collected more than 500 cans?

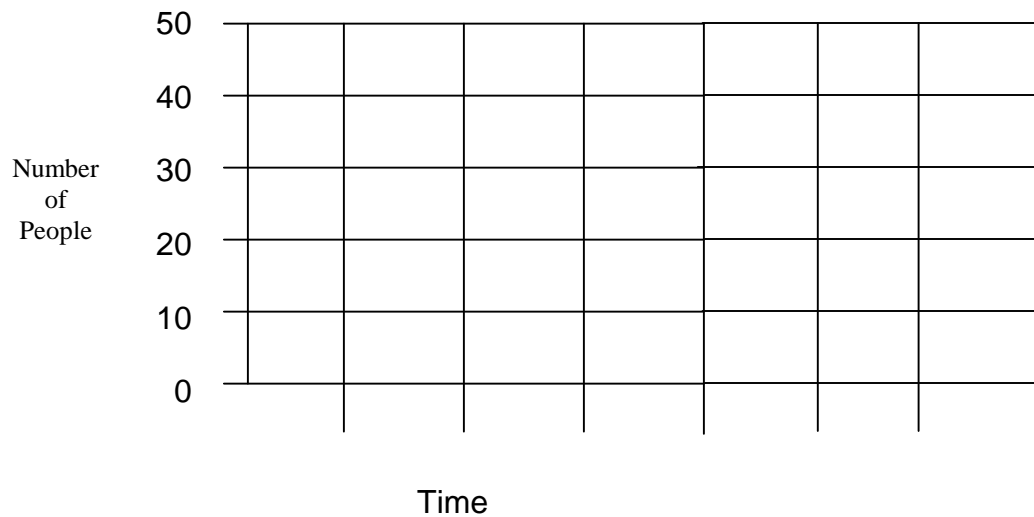
- 1
- 2
- 3
- 4 *

19 Tables, Graphs and Charts**B** Create bar graphs and pictographs from data in tables and charts

The table shows the number of people on each hourly tour of the museum.

Time	Temperature Fahrenheit
9:00 am	24
10:00 am	43
11:00 am	38
12:00 noon	18
1:00 pm	41
2:00 pm	28
3:00 pm	35

Complete the BAR graph to show the same information.



20 Statistics and Data Analysis

Draw and justify reasonable conclusions from data in tables, graphs and charts

This table shows the number of votes each candidate received in an election.

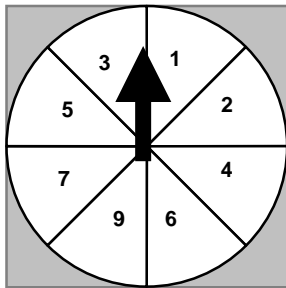
Candidate	Votes
Downey	3,821
Jones	2,746
Smith	4,110
McCoy	2,241
Carter	5,984
Roberts	1,970

Jill claims that Smith received ABOUT twice as many votes as McCoy. Based on the data in the chart above, is Jill's statement accurate? Use the data in the table to explain why or why not.

21 Probability

Solve problems involving elementary notions of probability and fairness, including justifying answers

Joe and Jill take turns spinning this spinner. Joe gets a point if the arrow lands on an even number and Jill gets a point if it lands on an odd number. Is this game fair?



Yes, because there are 8 choices.

Yes, because the outcomes are equally likely.

No, because there are more odd than even numbers.*

No, because there are more even than odd numbers.

22 Patterns

Extend or complete patterns involving numbers and attributes, and identify or state rules for given patterns.

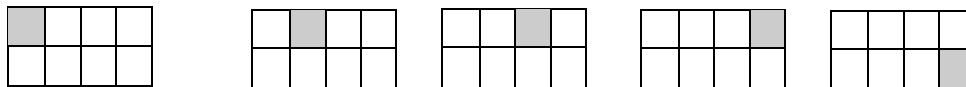
The numbers follow a pattern.

3, 9, 27, 81, ____

Which number should be next in the pattern?

- 135
- 243*
- 245
- 397

These shapes follow a pattern.



Which shape should be next in the pattern? Draw the next shape and explain why you think that it is the next shape in the pattern.

23 Algebraic Concepts

Solve simple 1-step equations

What is the value of x in this equation?

$$43 + x = 65$$

- 12
- 99
- 22*
- 108

24 Classification and Logical Reasoning

Solve problems involving the organization of data

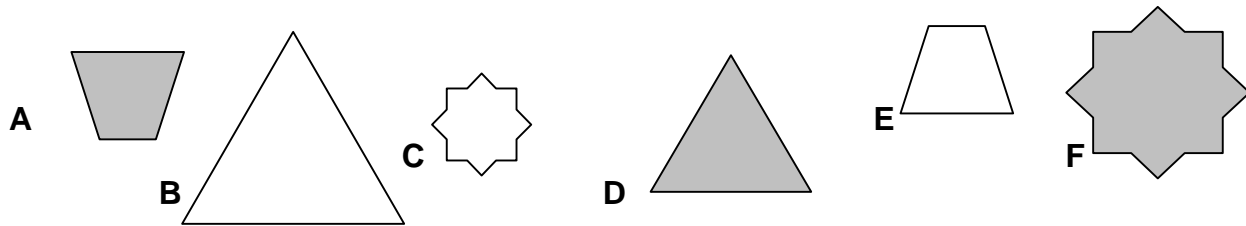
Ann, Joe, Harry and Don collected shells at the beach yesterday.

- Joe collected more than Harry and Ann.
- Don collected the FEWEST shells.

Who collected the MOST shells?

Don
Harry
Joe*
Ann

Sort all 6 of these figures into 2 groups so that the figures in each group have something in common. Write the letter of each figure under one of the groups below. Then write a sentence that explains why you grouped them this way.



Group 1	Group 2

Describe your rule for sorting here: _____

25 Mathematical Applications
A Numerical

Joe and his family have \$50 to spend at a restaurant. The members of his family are listed below:

Joe
Betty
Gil
Heather

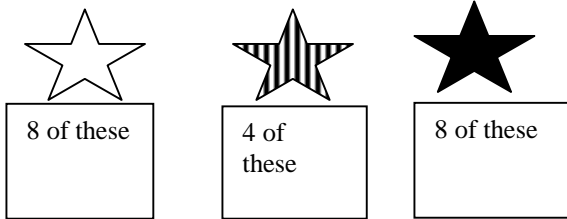
The menu at the restaurant is as follows:

ENTREES	
Chicken Dinner	9.95
Hamburger	5.95
Cheeseburger	6.95
Fish Dinner	8.95
DRINKS	
Large Soda	1.50
Tea	.95
Coffee	1.25
Milk	1.00
DESSERTS	
Cake	2.50
Pie	1.95
Ice Cream	2.25

Each member of Joe's family orders 1 entrée, 1 drink and 1 dessert. Determine an order for the family that is under \$50 and explain your mathematical thinking below.

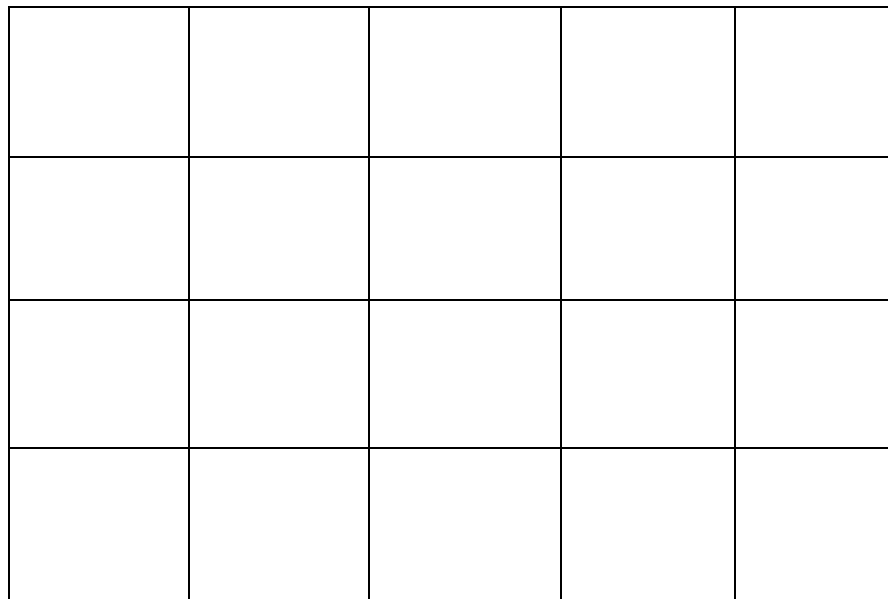
25 Mathematical Applications
B Spatial

Rob has these three kinds of stars:



He is making a design on his ceiling. His design will hold only 20 stars and he wants each row of his finished 4-row x 5-column design to match exactly every other row.

Use the grid below to draw a design that Rob could use. Be sure to use all 3 kinds of tiles, and explain how you know that each row matches every other row.



25 Mathematical Applications
C Statistical

Evan wanted to earn enough money to buy a new set of golf clubs. He created the following table to show the hours he was available to work each day:

Day	Hours Available To Work
Saturday	5 hours
Sunday	2 hours
Monday	$1\frac{1}{2}$ hours
Tuesday	1 hour
Wednesday	$1\frac{1}{2}$ hours
Thursday	$2\frac{1}{2}$ hours
Friday	$1\frac{1}{2}$ hours

If Evan earns \$4 per hour and can only work 12 hours each week, how long will it take him to earn the money necessary to purchase a set of golf clubs that cost \$200.

In the space below, create a schedule that shows the 12 hours Evan could work and how you arrived at your solution.