

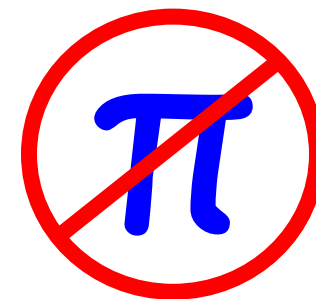
6

positive rational

$\frac{2}{9}$

1

2.125 numbers



3

1235439.2581

0.007

factor

To find the **product**, I need to multiply **factors**.

$$2 \times 3 = 6$$

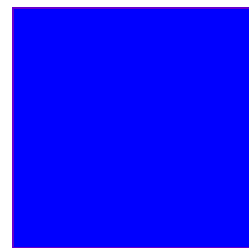
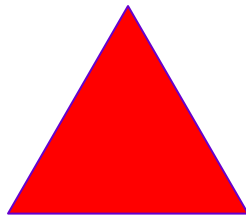
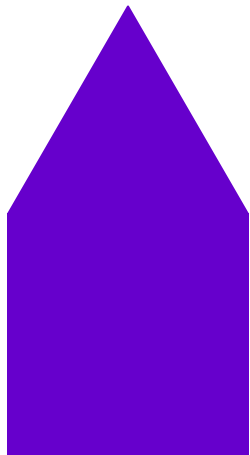
$$15 = 5 \times 3$$

multiple

Multiples of 12 - 12, 24, 36, 48, 60, 72

Multiples of 18 - 18, 36, 54, 72, 90, 108

decompose

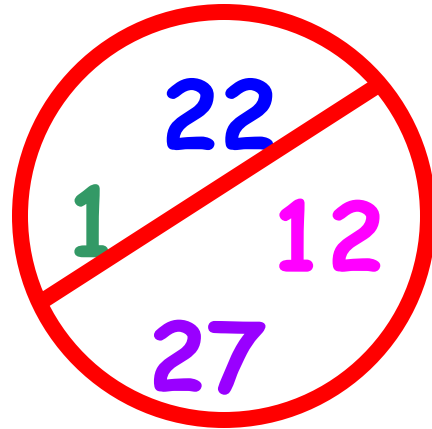


$$36 = 2^2 \cdot 3^2$$

prime numbers

2

41



83

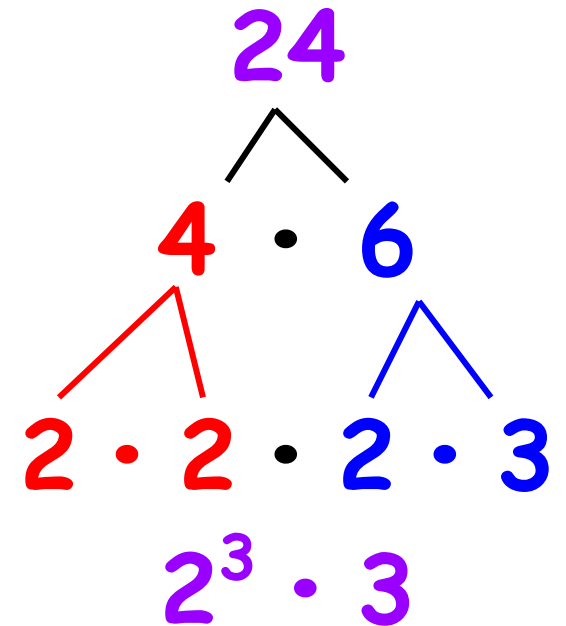
29

101

67

prime

factorization



Fundamental Theorem of Arithmetic

$$6936 = 2^3 \cdot 3 \cdot 17^2$$

$$1200 = 2^4 \cdot 3 \cdot 5^2$$

GCF

Factors of 12 - 1, 2, 3, 4, 6, 12

Factors of 18 - 1, 2, 3, 6, 9, 18

GCF is 6

LCM

Multiples of 12 - 12, 24, 36, 48, 60, 72

Multiples of 18 - 18, 36, 54, 72, 90, 108

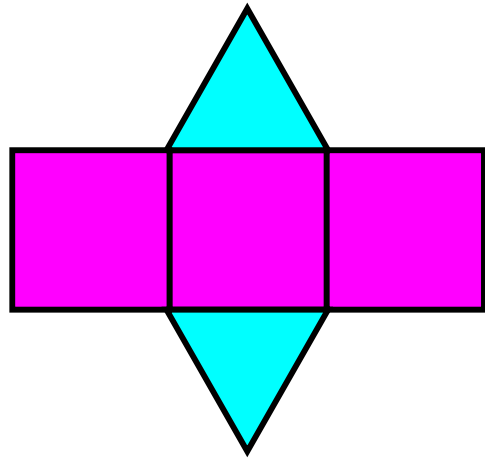
LCM is 36

evaluate

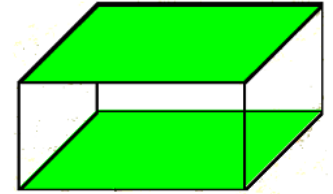
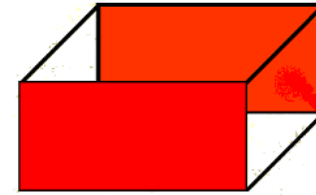
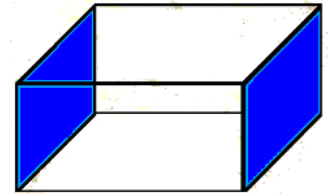
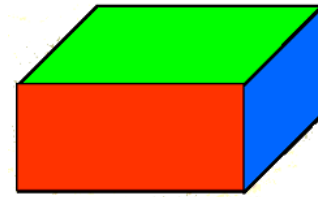
Evaluate $3x$ for

$x = 2, 5, 10, 12$

x	$3x$
2	6
5	15
10	30
12	36



surface
area



kg

metric system of

L

liter

measurement

milliliter

cm

kilometer

mL

centimeter

km

kilogram

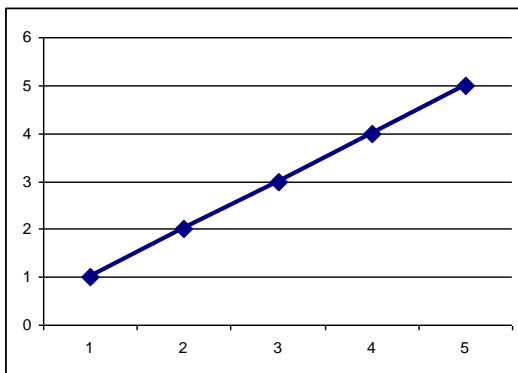
yd customary system qt
mile of measurement pound
inch lb in yard m
quart foot

$$F - 32 = 1.8C$$

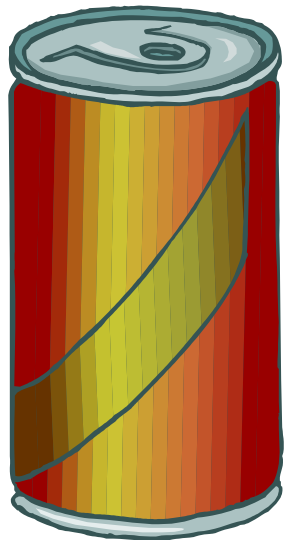
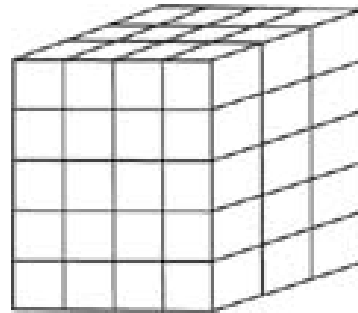
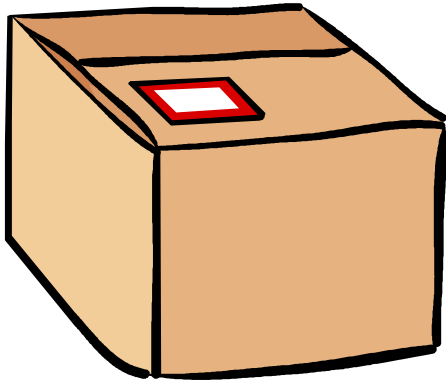
proportional $y = 2.5x$

relationship

height and shadow length

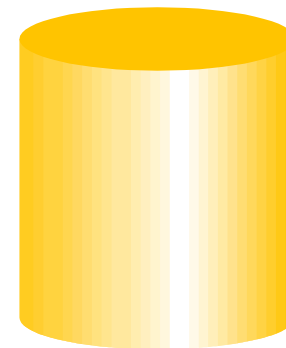


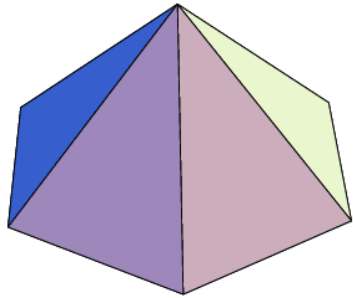
right rectangular prism



cylinder

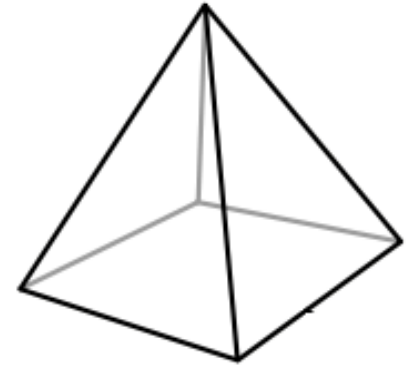
A three dimensional object with two parallel, congruent, circular bases



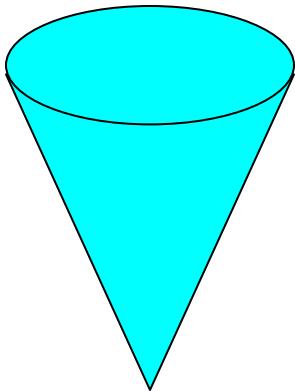


hexagonal
pyramid

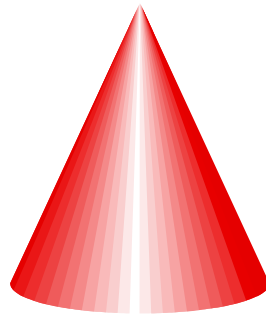
pyramid



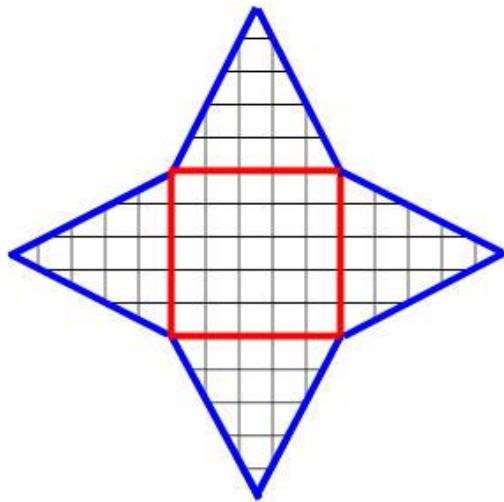
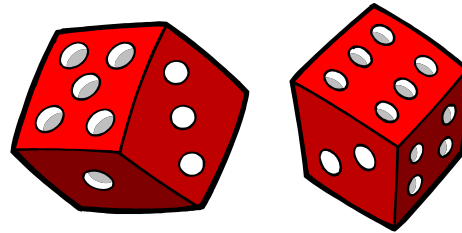
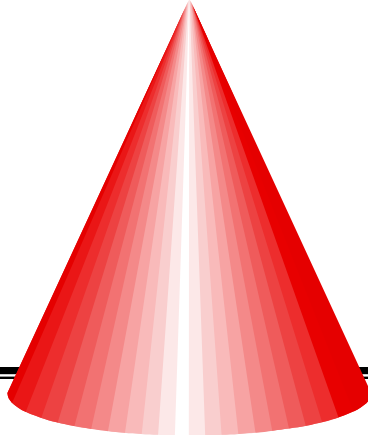
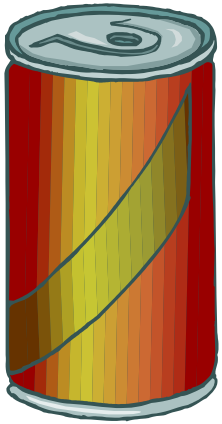
triangular
pyramid



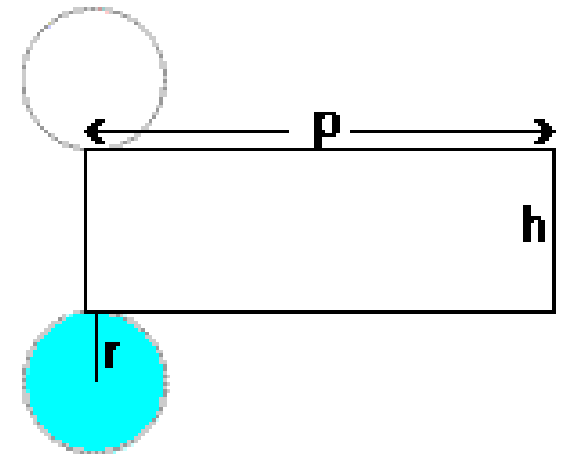
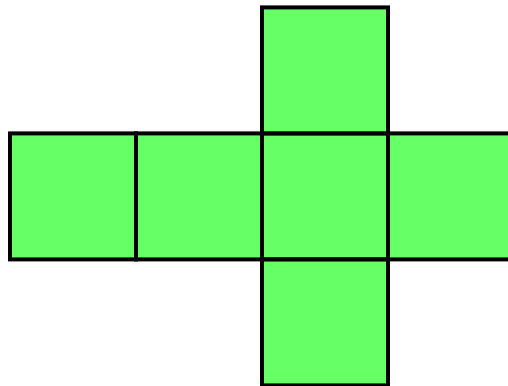
cone

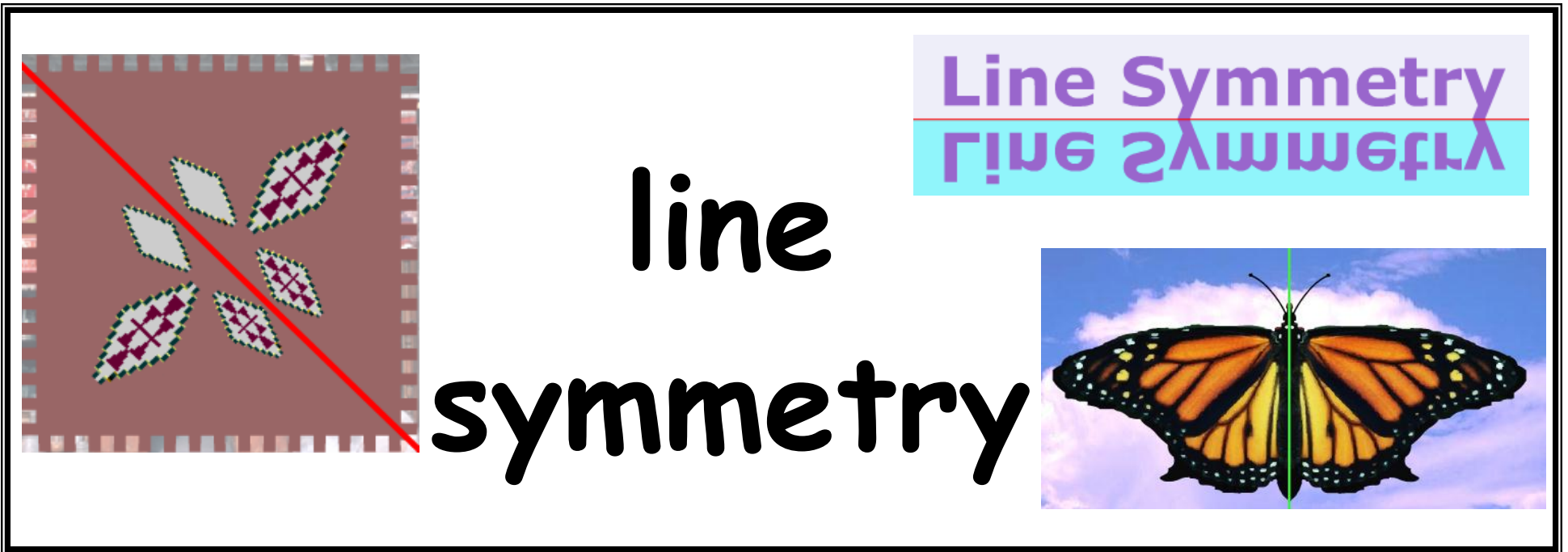
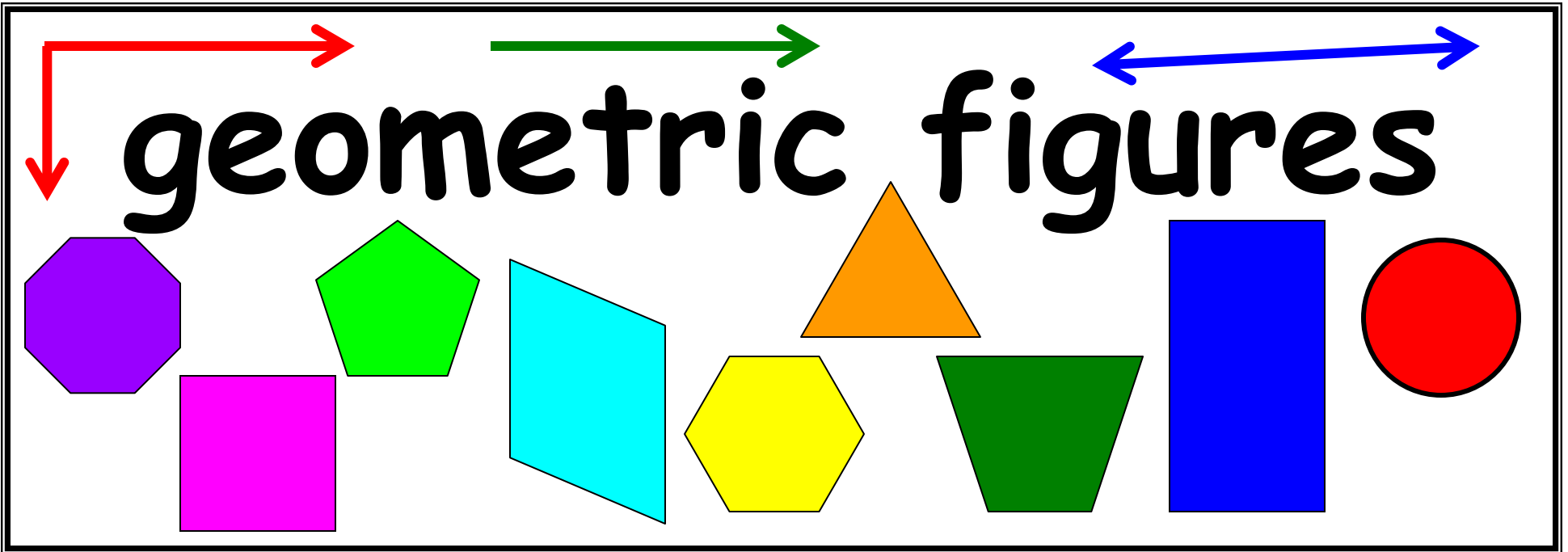


geometric solid



net

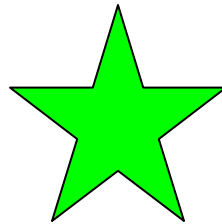
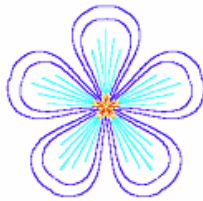




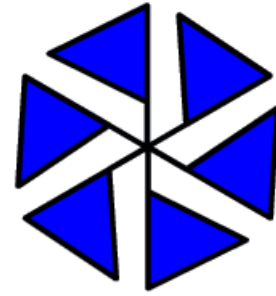
rotational symmetry



2-fold

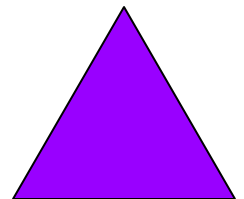
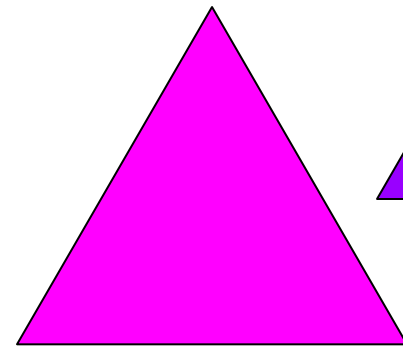
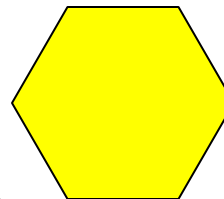
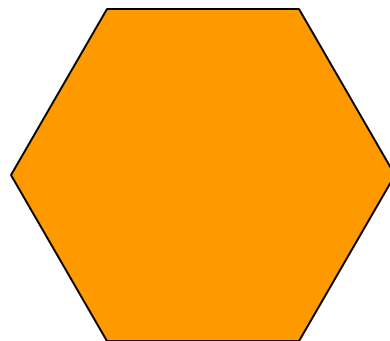
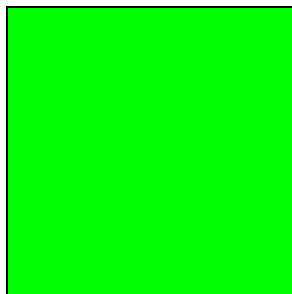
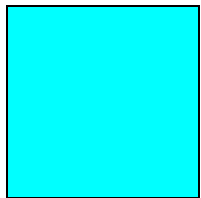


5-fold

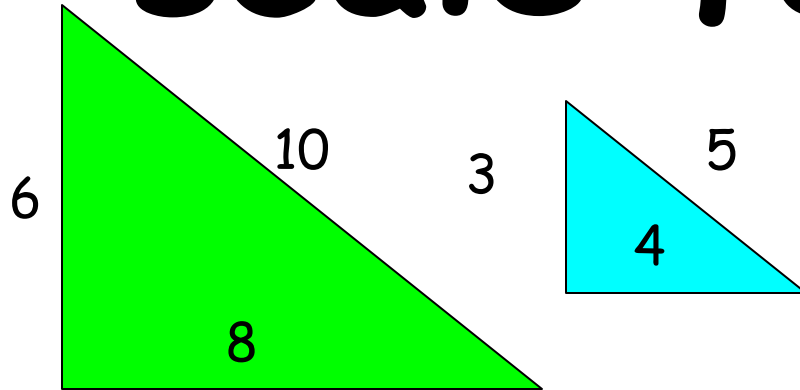


6-fold

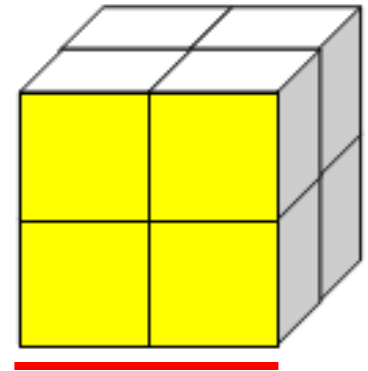
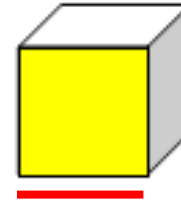
similar plane figures



scale factor



Scale factor is 2 or 2:1

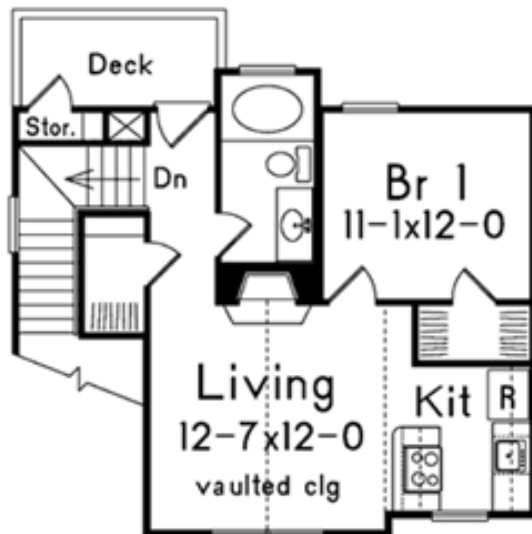


Length - scale factor is 2

Area - scale factor is 4

Volume - scale factor is 8

scale drawing



ratio

relations

order

>, <

equality

=

divisibility

proportions

varying quantities

proportions

$2n$

$$y = kx$$

$\frac{1}{2}b$

210 miles to 7 gallons

30 miles per gallon

ratio

6 boys

8 girls

6 : 8 $\frac{3}{4}$

Ratio of dogs to bones is 2:3.

6 to 8

There are 6 bones. How many dogs?

direct proportion

Salary = \$15.00 × Number of hours worked

$$S = 15x$$

Hours Worked	1	1.5	2	5	10
Salary	\$15.00	\$22.50	\$30.00	\$75.00	\$150.00

$$\frac{2}{5} = \frac{4}{n}$$
$$n = 10$$

proportion

$$\frac{a}{b} = \frac{c}{d}$$

$$\frac{4}{7} = \frac{12}{21}$$

proportional reasoning

1 U.S. dollar = 0.92 Euro

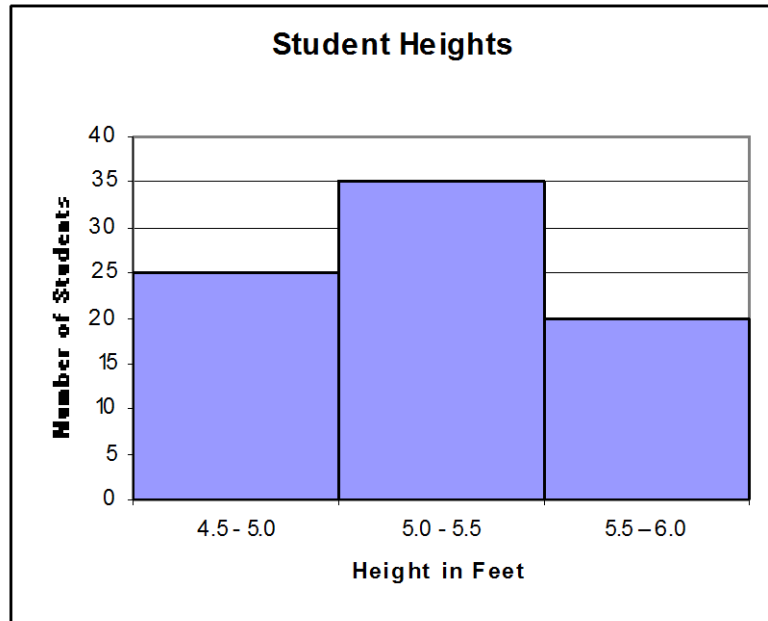
Which is more, \$1 or 1 Euro?

Why?

100 luks = 1 tuk

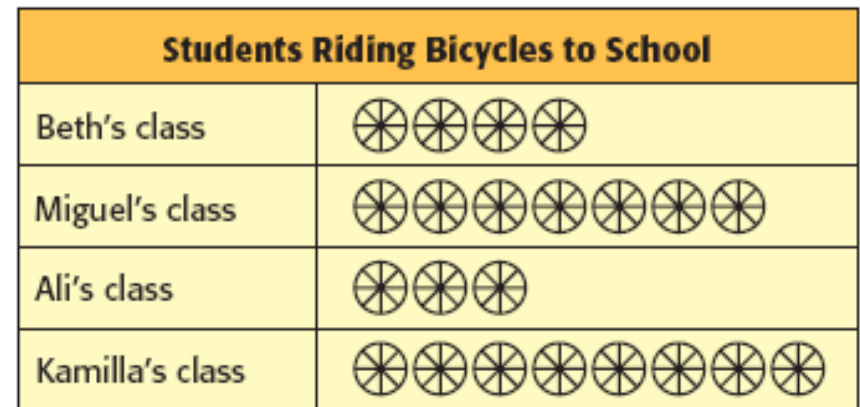
? luks = 3 tuks

frequency distributions



Height range	# of students
4.5 - 5.0	25
5.0 - 5.5	35
5.5 - 6.0	20

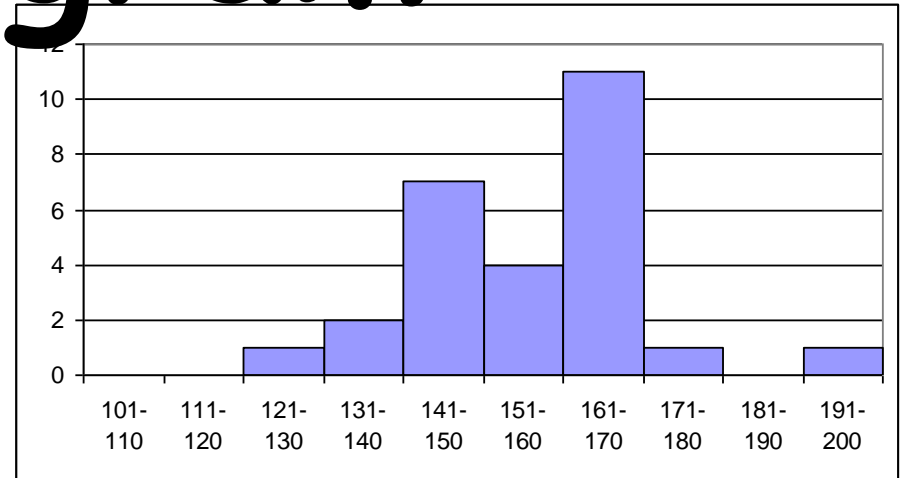
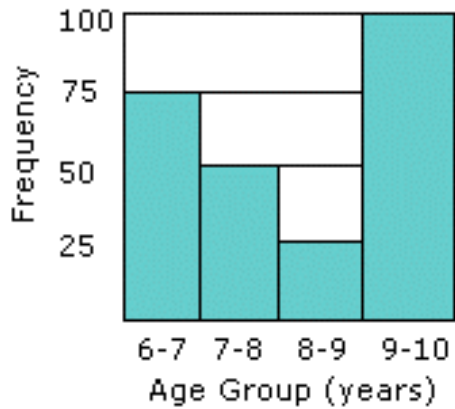
pictograph



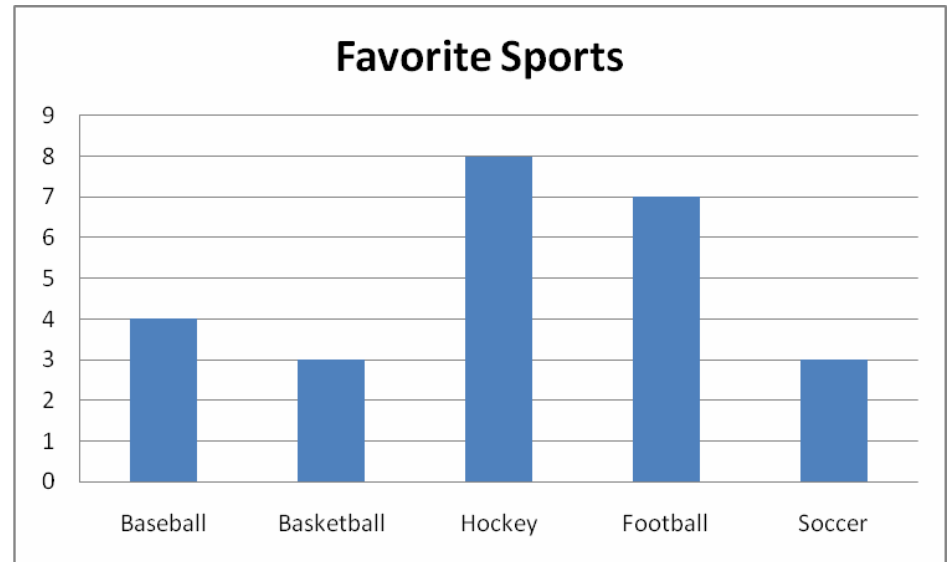
Each represents one student.

histogram

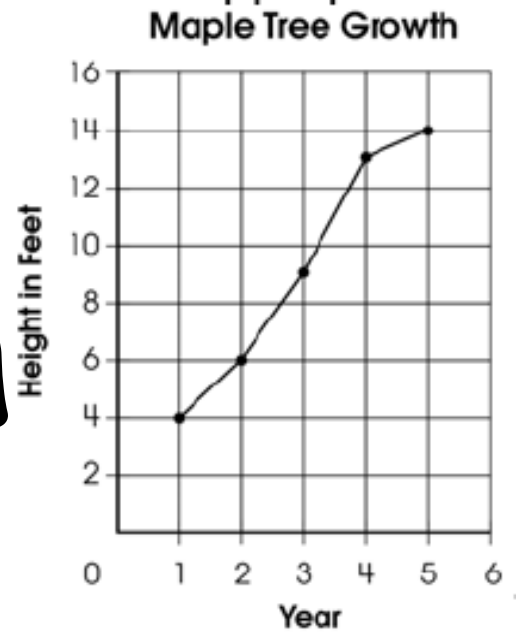
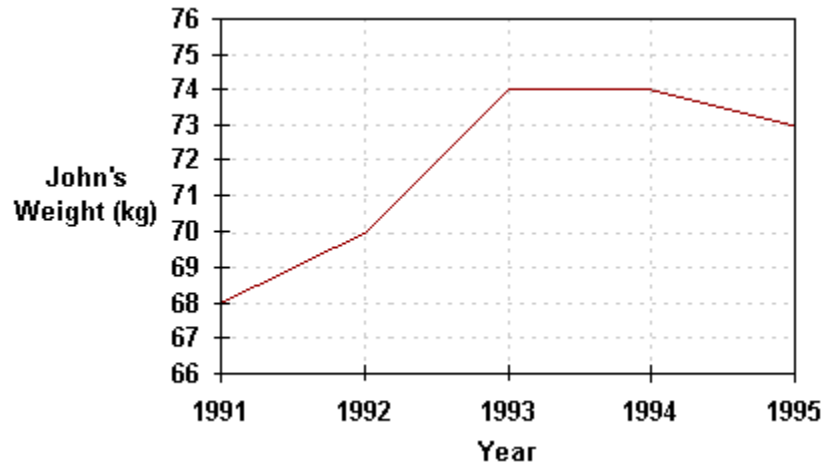
Number of Children Visited a Zoo



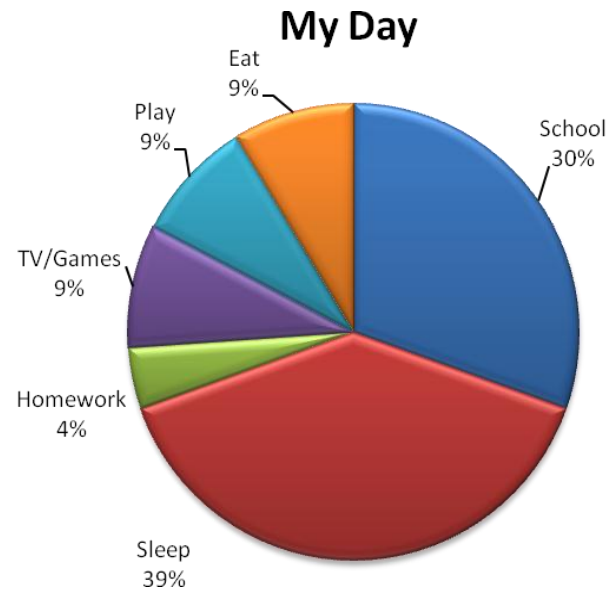
bar graph



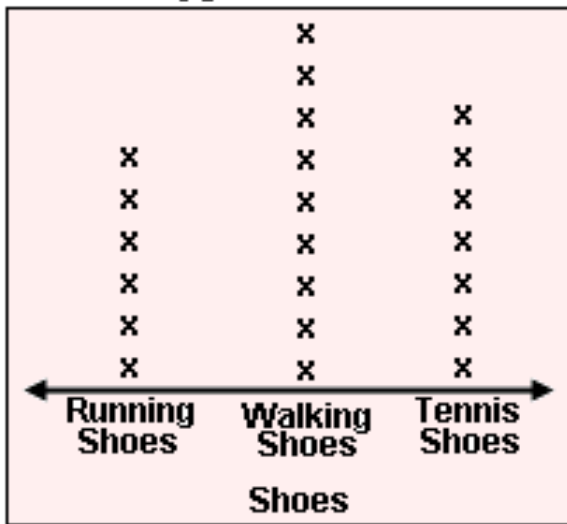
line graph



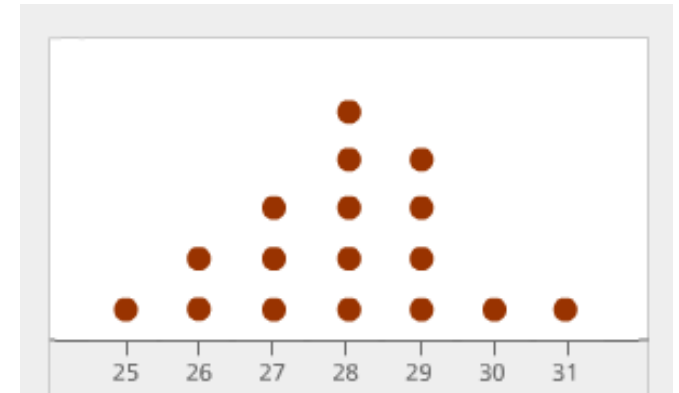
circle graph



Types of Shoes



line
plot



M&Ms per bag

frequency table

Favorite Food	Tally	Frequency
Taco	/	7
Burger	/	9

Score	Frequency
Below 75	4
76 - 80	14
81 - 85	2
86 - 90	8
91 - 95	5
96 - 100	1

experimental probability

Toss a coin

Heads	Tails
10	6

$$P(\text{heads}) = 5/8$$

$$P(\text{tails}) = 3/8$$

theoretical probability

Toss a coin -

$$P(\text{head}) = \frac{1}{2}$$

$$P(\text{tail}) = \frac{1}{2}$$

Pick a marble

(2 blue, 3 red, 1 black)

$$P(\text{red}) = \frac{1}{2}$$

$$P(\text{white}) = 0$$

Roll a die -

$$P(>4) = 1/3$$

$$P(\text{even}) = \frac{1}{2}$$

sampling

Selecting students from P.E. classes

Selecting names from a hat

event

Toss a coin

Roll a die

Pick a marble

Spin a spinner

Pick a letter

random sample

students 2, 8, 12,
15, and 22 from
each math class

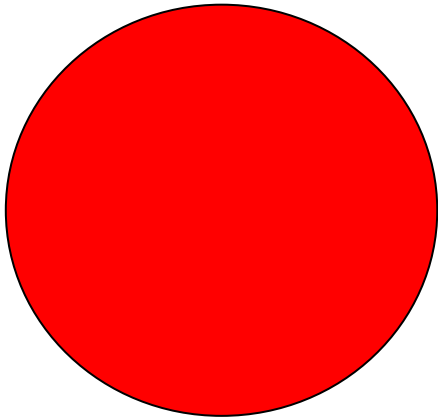
first 25 names of
sixth graders
drawn out of a hat

population

all P.E. students

all Georgia students

all middle school students



Circle

the set of points in a plane
that are a fixed distance
from a given point

radius

the distance from the center of a circle to a point on a
circle, the line segment from the

center of a circle to a point on a circle.