1

Add and subtract in the columns:

$404 + 710 =$____ $117 - 78 =$_____ $997 - 513 =$ _____ $608 + 309 =$____

2

Fill in the missed numbers in the brackets:

a) $643 = ($ $) + ($ $) + ($ $)$ b) $300 + 30 + 3 = ($ $)$

c) $302 = ($ $) + ($ $) + ($ $)$ d) $900 + 0 + 9 = ($ $)$

3

Write down the comparison of the expressions instead of word sentences:

a) the sum of 29 and 2 is greater than A _____

b) B is greater than the difference between 20 and 5 _____

c) C is equal to the sum of 11, 32 and 40_____

d) the difference between 100 and D is less than E _____

4

Complete the number patterns:

a) ____, _____, 290, 285, _____, _____

b) 486, 488, _____, _____

c) ____, 123, 223, ____, 423

5

Find the sum using the commutative property of addition.

$5 + 15 + 25 + 35 + 45 + 55 + 65 + 75 + 85 + 95 =$ _____

6

Insert missing numbers:

$15 + (5 \times \ldots) = 25$ $15 + (5 \times \ldots) = 55$ $15 + (5 \times \ldots) = 40$

$15 + (5 \times \ldots) = 60$ $15 + (5 \times \ldots) = 70$ $15 + (5 \times \ldots) = 75$

Arithmetic and Algebra Review.

7

Number the order of operations in the way that they should be performed.

②　①

a)　　$a + b - c + d$

b)　　$(a + b) - (c + d)$

c)　　$a + (b - c) + d$

d)　　$a + (b - c + d)$

8

Open parentheses and calculate:

a)　　$26 + (32 - 16) = $ _____

b)　　$(247 - 123) + (383 - 147) = $ _____

c)　　$93 + (12 + 15) - 35 = $ _____

d)　　$(72 + 15) - 47 - (94 - 72) = $ _____

9

Compare:

$32 - x$ _____ $32 - (x + 2)$　　　　　　$32 + x$ _____ $32 + (x + 2)$

$26 - y$ _____ $26 - (y - 3)$　　　　　　$26 + y$ _____ $26 + (y - 3)$

$b - a$ _____ $b - (a - n)$　　　　　　　$b + a$ ____ $b + (a + m)$

$b - c$ ____ $b - (c - n)$　　　　　　　$b + c$ _____ $b + (c - n)$

10

Solve the problems:

a) There are four cartons of eggs and each carton has 6 eggs. Two out of all of the eggs are bad. How many good eggs are there altogether?

___ × ___ − ___ = ___

b) The family ordered 5 fruit baskets. Each basket contains 4 apples. They also had two apples in the fridge. How many apples do they have after receiving the baskets?
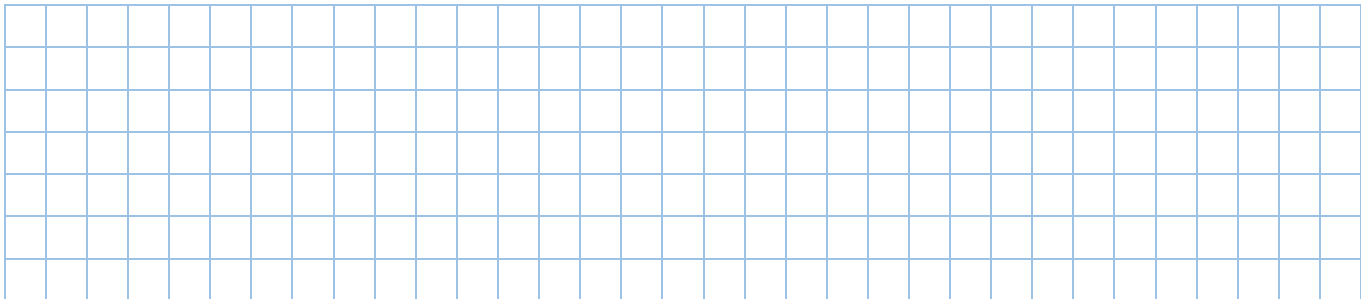
___ × ___ + ___ = ___

11

Calculate:

$49 \times 7 = $　　　　　　　　$67 \times 4 = $　　　　　　　　$83 \times 8 = $

12

Using a ruler draw lines going through points:
   a) A and B   b) C and D   c) E and F

A •   B •

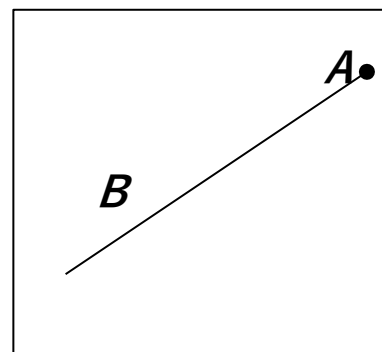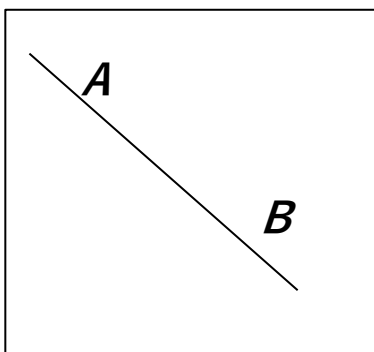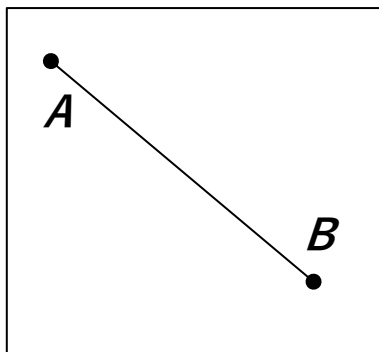   E •

            D •

C •   F •

13

Connect the names with the appropriate drawings.

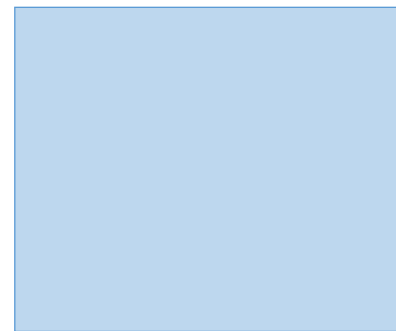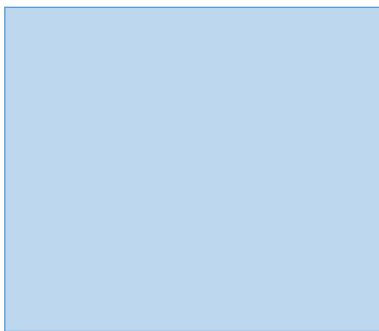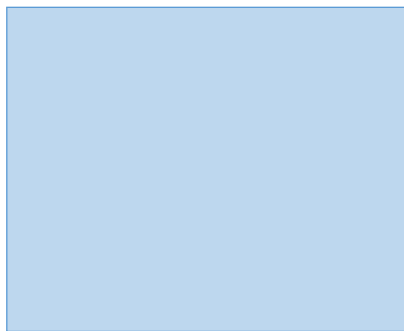| Straight line $\overleftrightarrow{AB}$ | Segment $\overline{AB}$ | Ray $\overrightarrow{AB}$ |

14

Using your ruler draw:

   a) Two line segments, which intersect at point K

   b) Two line segments, which do NOT intersect and are not parallel.

   c) Two rays, which do not intersect

Arithmetic and Algebra Review.

15

The distances between a tower, a tree, and a cave are shown in the drawing. What will you find out if you perform the following actions?

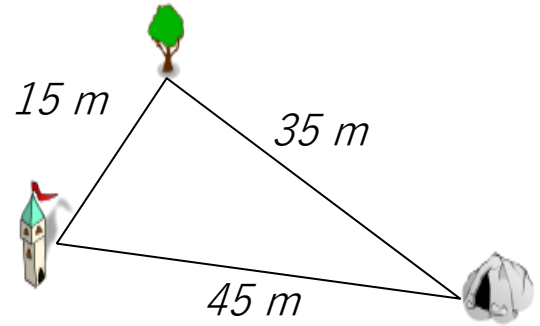15 + 15   distance from tower to tree and back

15 + 45   _____

45 + 35   _____

15 + 35 + 45 _____

15 m

35 m

45 m

16

Draw two closed curves, one inside the other. Draw an open curve that intersects each of the closed curves at two points. Label the intersection points with any letters you choose.

17

Look at the definitions below and connect each definition with a correct term.

• is a straight.   **Ray**
• goes in both directions.
• does not end ... so you can't measure its length

• is straight.   **Line Segment**
• is part of a line.
• has one endpoint.
• goes in ONE direction.

• is straight.   **Line**
• is a part of a line.
• has 2 endpoints that show the points that end the line.

18

Calculate.

4 m 2 dm 6 cm + 1 m 5 dm 2 cm = __ m ____ dm ____ cm

9 m 8 dm 3 cm – 6 m 2 dm 1 cm = ___ m ___dm ____ cm

Arithmetic and Algebra Review.

19

a) Draw a line segment $\overline{AB}$.
Draw another line segment $\overline{CD}$ in a way that the intersection between $\overline{AB}$ and $\overline{CD}$ is a point K.
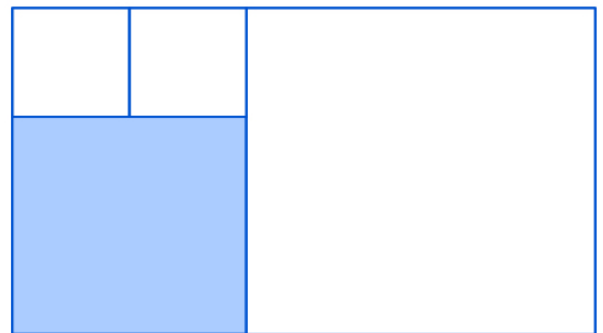
b) Draw a line segment $\overline{AB}$ again below. Draw another line segment $\overline{EF}$ in a way that the intersection between $\overline{AB}$ and $\overline{EF}$ is a line segment $\overline{EB}$.
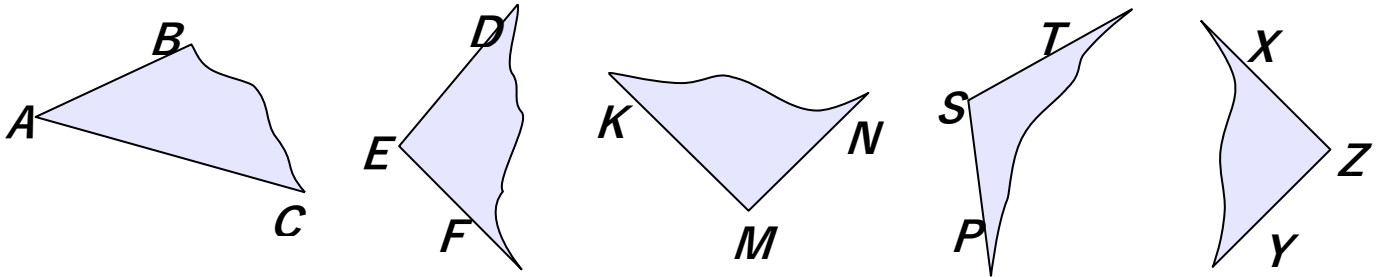
20

Rectangle is divided into 4 squares. Find a perimeter and an area of the rectangle if one side of the shaded square is 8 cm.

P = _____

A = _____

Arithmetic and Algebra Review.

21   What kind of angles do you see on the drawing below? Write down the names under each angle.

22   The square with a side equal to 1m cut down on the smaller squares with a side of 1 cm. Then all small squares are put along the straight line one by one. The width is equals to 1cm. How long the length is going to be?

23   Ann plotted two intersecting straight lines. On one of the lines, she labeled 3 points. On the other line she labeled 5 points. Totally she has labeled 7 points.
How is that possible? Show on the picture.