Math 3   Homework 15

1

Calculate using the most optimal way:

a) $13 + 16 + 19 + 22 + 25 + 28 + 31 + 34 + 37 =$ _____ = =_____

b) Calculate smartly. Look on the equations and decide where you need to remove parentheses and where you don't:

$14 - (4 - 1) =$ _____ $208 - (100 + 8) =$ _____

$444 - (44 + 400) =$ _____ $444 - (44 + 400) =$ _____

$14 - (4 - 1) =$ _____ $208 - (100 + 8) =$ _____

c) Calculate:

3 dm 7 cm + 4 dm 5 cm = _____

26 cm + 3 dm 8 cm = _____

7 dm 2 cm – 56 cm = _____

6 dm 8 cm – 9 cm = _____

2

Calculate (remember about an order of operations):

$5 \times (4 + 2) =$ _____

$(4 + 3) \times 7 =$ _____

$9 \times 4 \div 4 + 6 =$ _____

$3 \times 4 + 8 \div 2 =$ _____

$160 - 7 \times 4 + 1=$ _____

$12 \times 4 - (28 - 6) =$ _____

$15 + 3 \times (27 - 20) =$ _____

3

Calculate:

$60 \div 6 =$ $30 \div 10 =$ $46 \div 1 \div 46 =$ $20 \div 5 =$

$7 \div 7 =$ $70 \div 70 =$ $12 \div 12 \div 1 =$ $20 \div 4 =$

Report the time you spent: _____

4

Bananas are packed in boxes, *m* kg per each box.
Apples are packed in bags, *w* kg per bag. There
are 4 boxes of bananas and 9 bags of apples.
Explain the meanings of the expressions below:

$4 \times m$	
$9 \times w$	
$4 \times m + 9 \times w$	
$4 \times m - 9 \times w$	
$4 + 9$	

5.

Think of the question you should ask for each problem and solve the problems:

a) Sean has 18 markers. His teacher gives him three boxes and asks her to put an equal number of markers in each box.

Q:

Solution:

b) Camilla has 18 markers. Her teacher wants her to put 3 markers in each box until she is out of markers.

Q:

Solution:

6.

Emma spent $9 on each of her 6 friends at the fair. How much money did she spend? _____

Aurora bought some games for her friends for $8 each. If she spent a total of $48, how many games did Nita buy? _____

Zoe spent an equal amount of money on each of her 7 friends at the fair. If she spent a total of $42, how much did each friend get? _____

7.

Calculate:

|		
$6 \times 6 \div 6 =$	$7 \div 1 \times 7 =$	$30 \div 30 \times 30 =$
$10 \div 5 =$	$10 \div 2 =$	$9 \div 3 =$
$15 \div 3 =$	$15 \div 5 =$	$14 \div 7 =$

8. Draw a four-sided polygon that has right angles at the 2 bottom corners, an angle less than 90^0 at the upper left corner, and an angle greater than 90^0 in the upper right corner.

9. Perimeter of a square below is 16 cm. Using 4 such squares form new shapes so that every two squares might have a common side.

Draw different shapes with $P_1 = 32$ cm and $P_2 = 40$ cm. How many different shapes with perimeter equal 40 cm can you draw?
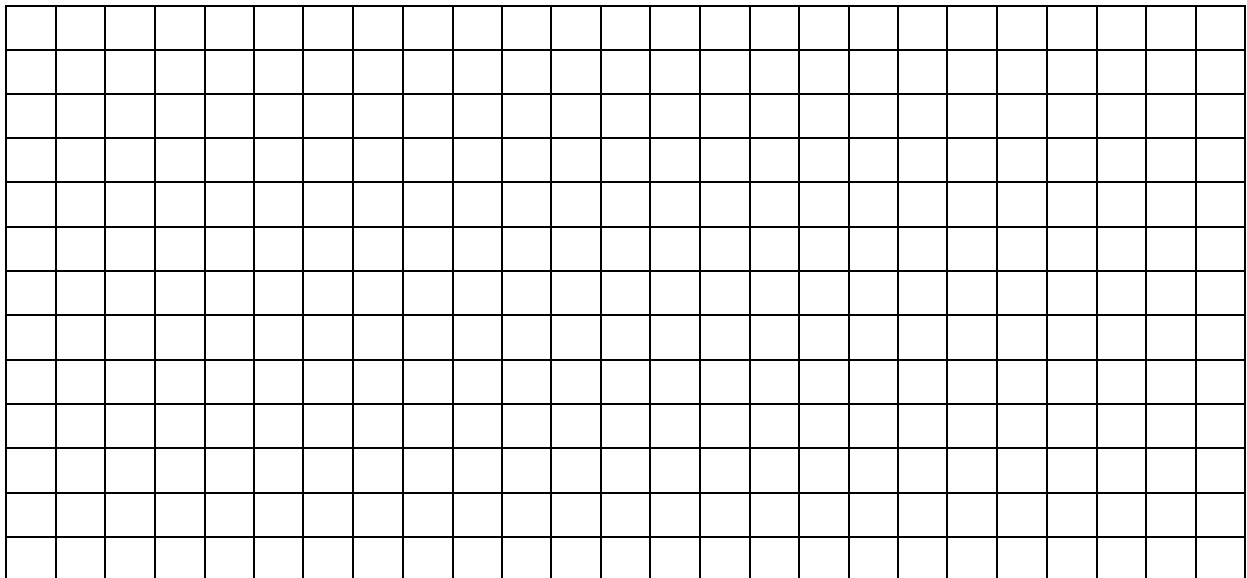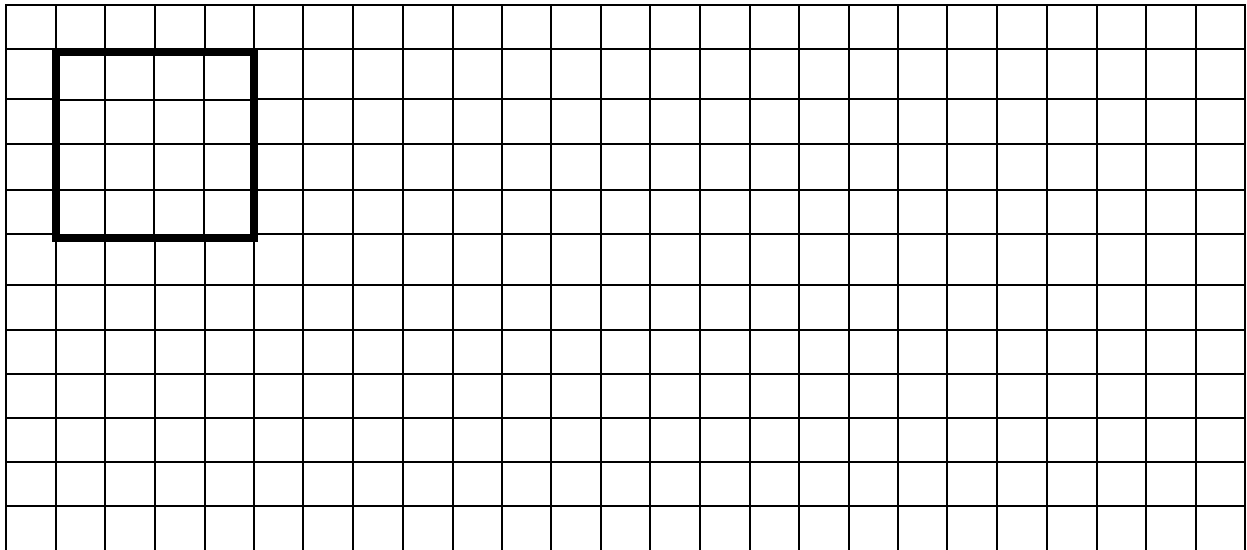
10

Below is a drawing of a straight angle ∠BAE (remember that a straight angle is always 180°) . The angle ∠DAE equals 75° and the angle ∠BAC = 25°.

a) Find an angle ∠CAD = _____
b) Find an angle ∠BAD = _____
a) Find an angle ∠CAE = _____
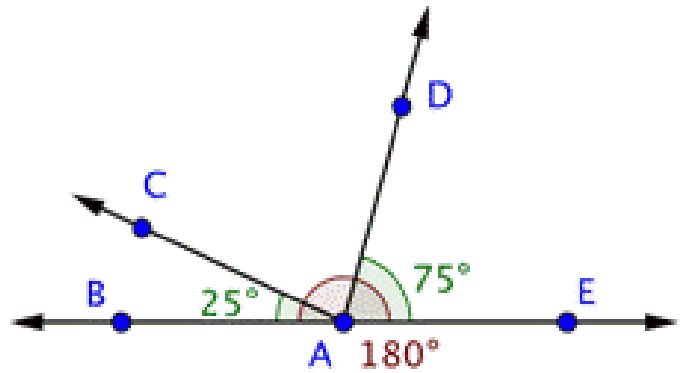
11

Choose one of the pictures below and copy it as accurate as you can. Make your picture larger.