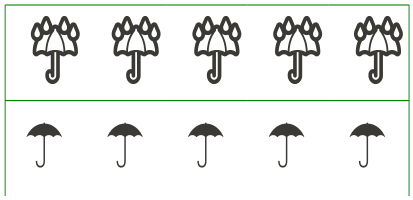
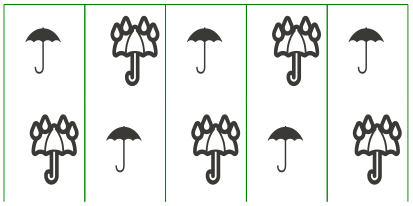
Math 2 Homework 16

a) Is the number of umbrellas the same in both tables? Write down the expression with multiplication by rows and by columns:





_____ _____

b) Rewrite each problem using addition instead of multiplication. The first one is done for you.

5 × 3 = 5 + 5 + 5 ***a*** × 4 = _____ ***b*** × 2 = _____

2 × 2 = _____ ***n*** × 4 =_____ ***p*** × 3 = _____

c) Calculate and express the answers in cm:

3m 2dm 7 cm + 4m 5cm = _____

206cm + 3m 8cm = _____

17dm 2 cm – 56cm = _____

6 dm 8cm – 9dm = _____

d) Open the parentheses and calculate using the most convenient way:

890 – (390 + 40) =_____

107 + (56 – 17) =_____

432 – (150 – 18) =_____

(350 + 49) – 29 =_____

(107 – 36) + 46 =_____

(205 –184) + 194 =_____

Report the time you spent: _____ minutes

HW 16 Multiplication. Multiplication table. Perimeter.

1

Skip count by 3, starting from 3 up to 30: _____

Skip count by 5, starting from 5 up to 50: _____

2

Learning multiplication table by 2, 3 and 5. Your life will be a lot easier when you can simply **remember** the multiplication tables. So ... **train your memory**!

First, read it aloud - sing or chant the table. This is the auditory learning - not only have you spoken the table, but you have also heard it.

Second, repeat, repeat and repeat some more - repetition is the key to learning tables (or other facts). The more you say the table aloud, the more you will learn it like you learn word to a song.

And … **practice!**

2 × 2 =	2 × 3 =
3 × 2 =	3 × 3 =
3 × 5 =	5 × 3 =
2 × 5 =	5 × 2 =
6 × 2 =	7 × 2 =
2 × 6 =	2 × 7 =
8 × 2 =	8 × 3 =
3 × 8 =	2 × 8 =
5 × 4 =	5 × 5 =
5 × 6 =	4 × 5 =
6 × 5 =	2 × 5 =
5 × 2 =	5 × 3 =
3 × 5 =	5 × 7 =

×	1	2	3	4	5	6	7	8	9
1	1	2	3	4	5	6	7	8	9
2	2	4	6	8	10	12	14	16	18
3	3	6	9	12	15	18	21	24	27
4	4	8	12	16	20	24	28	32	36
5	5	10	15	20	25	30	35	40	45
6	6	12	18	24	30	36	42	48	54
7	7	14	21	28	35	42	49	56	63
8	8	16	24	32	40	48	56	64	72
9	9	18	27	36	45	54	63	72	81

3

Rewrite the expressions below replacing addition with multiplication where possible.

a) 2 + 2 + 2 + 2 + 2 + 5 = _____

b) 5 + 5 + 5 + 5 + 4 = _____

c) 3 + 3 + 3 + 3 + 3 + 3 + 6 = _____

d) 7 + 7 + 7 + 3 =

4

Fill in the missed numbers to make the equations correct:

3 × 2 = ____ × ____	____ × ____ = 2 × 8
5 × 2 = ____ × ____	____ × ____ = 5 × 8
3 × 5 = ____ × ____	____ × ____ = 5 × 6

5

Solve the problems (show your work!):

a) One textbook costs $5. How much should you pay to buy 6 such books? _____

b) The adult ticket to the museum costs $20 and the child ticket costs $3. There are 8 children in your group and one adult. How much total should your group pay for the museum tickets?

_____

c) There are 5 people in the car. There are twice as many people in the minibus as in the car. On the bus, there are 5 times as many people as in the minibus. How many people are in all three vehicles altogether?

_____

_____

6

Write down numerical expressions, using operation signs and parentheses and calculate or simplify where possible:

a) Subtract 80 from the difference of 105 and 15 _____

b) To the sum of 35 and 15 add number 50 _____

c) To the difference of 25 and 10 add a sum of 46 and 24 _____

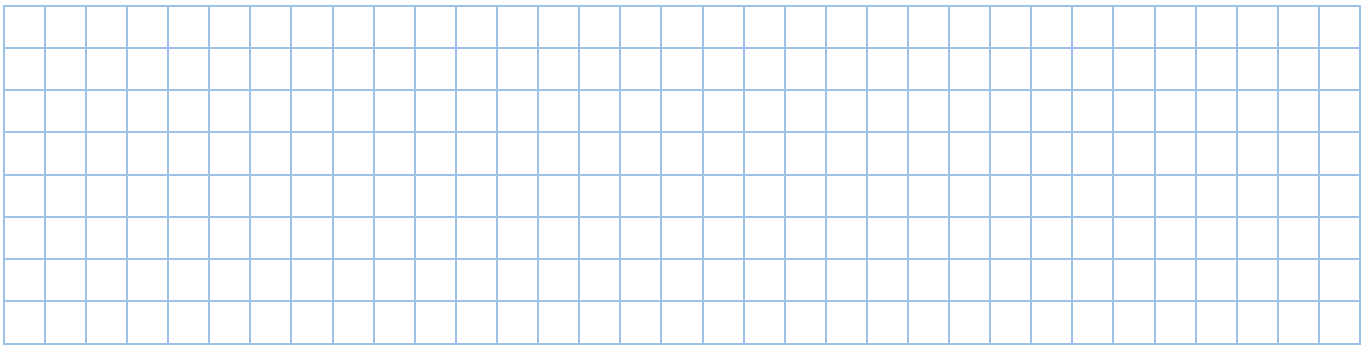
d) From the difference of 234 and ***a*** subtract a number 34 _____

e) Add ***b*** to the sum of ***a*** and ***b*** _____

7

On the grid below, draw a square with a side equals 2 cells (try to do it in the upper left corner to allow yourself more space). Using 4 such squares make a) square and b) rectangle

Find the perimeters of each shapes you got:



P_{square} =

$P_{rectangle}$ =

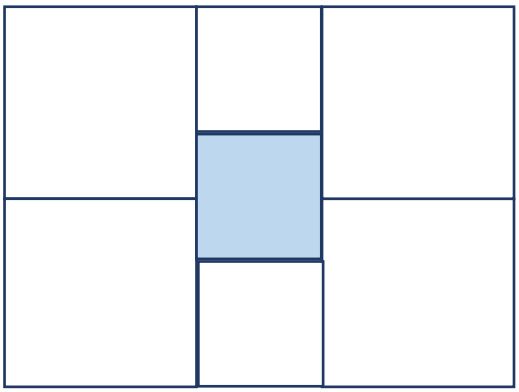
8 The rectangle below is divided into 7 squares. Find a perimeter of the rectangle if the side of shaded square is 2cm.

Find the length and width of the rectangle first.

Length = _____

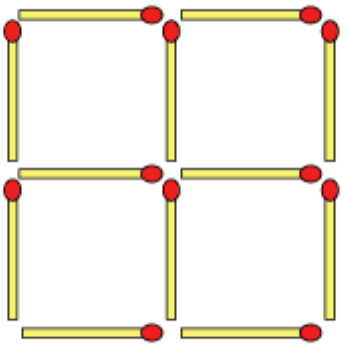
Width = _____

Perimeter =



9 Matchsticks puzzles.

a) Remove 2 matchsticks to leave 2 squares.



b) Remove 3 matchsticks to get 3 squares.