5 Fill in missing numbers:

8 × 8 = 64	7 × 7 = 49	9 × 6 = 54	2 × 8 = 16	10 × 2 = 20
9 × 7 = 63	9 × 5 = 45	5 × 8 = 40	9 × 4 = 36	3 × 8 = 24
4 × 4 = 16	6 × 6 = 36	10 × 6 = 60	9 × 2 =18	3 × 9 = 27

6 Solve problems (if needed draw rectangulars):

A. Rectangle ***SKLF*** has sides 6 cm and 8 cm. Find the area of the rectangle ***SKLF***.

$S = 6 \times 8 = 48\ cm^2$

B. Rectangle ***ABNM*** has sides 4 cm and 7 cm. Find the area of the rectangle ***ABNM*** .

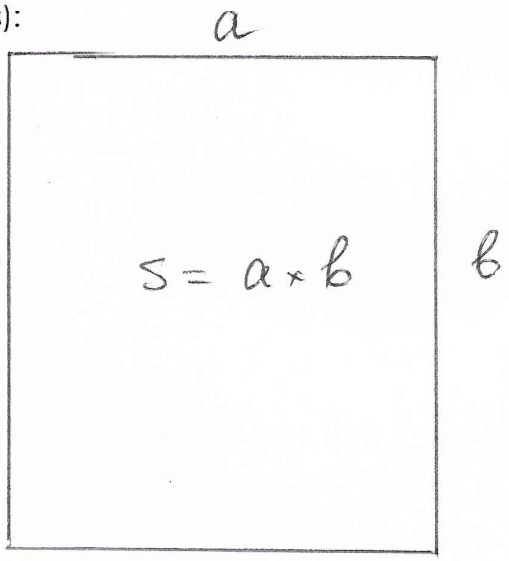
$S = 4 \times 7 = 28\ cm^2$

C. One side of rectangle ***POMG*** is 6 cm. Its area is 54 cm^2. What is the other side of the rectangle?

$a = S \div b$; $a = 54 \div 6 = 9\ cm$

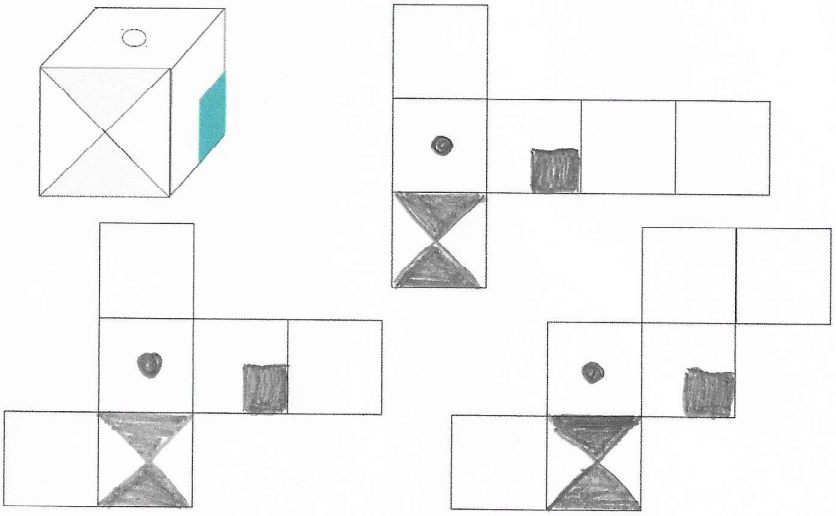
D. The side of ***SW*** rectangle ***SWVR*** is 6 cm. Its area is 42 cm^2. What is the other side (***WV***) of the rectangle?

$WV = 42 \div 6 = 7\ cm$



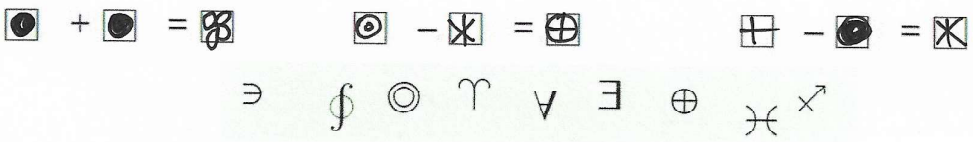
7 Imagine the cube has been unfolded.

Three faces have patterns and the other three faces are blank. Draw the faces on each of the three unfolds.



8 A. Make up your own symbols to encode the numbers or choose the symbols below. Make sure that in all equalities the same digits are encoded using the same sign and different digits are encoded by different symbols.

$3 + 3 = 6$ $\quad 9 - 4 = 5$ $\quad 7 - 3 = 4$



B. Match each number with the correct encoded record.

30	L	
	LL	
	L0	
48	V0	
	VV	
	VJ	
66	Z0	
	ZL	
	ZZ	

C. Compare the two numbers where possible using >, <, or =.
One of the tasks has a trap. Find it.

60 > 6	73 > 70	59 < 8V
V0 > V	VZ > V0	Y4 > 4Z
V0 < V2	VZ > 8	VJ > Z

if Y > Z

D. Fill in the numbers 9 and 5 to make the each equation correct.

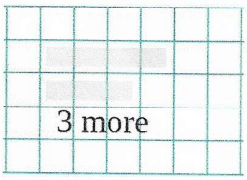
$4 + V = J$	$Z - Y = 4$	$5 + Q = P$
5 9	9 5	4 9

E. Match the numerical equations with the correct encoded equation:

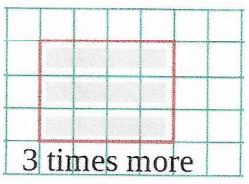
$8 - 4 = 4$	$Y - L = J$
$7 - 2 = 5$	$V - Z = Z$

9 Fill in the tables.

	4	5	7	8
3 more	7	8	10	11
3 times more	12	15	21	24

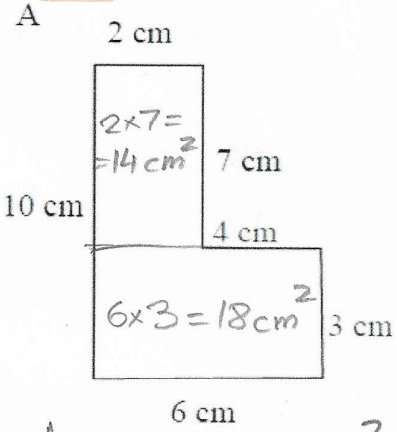


	4	5	7	8
5 more	9	10	12	13
5 times more	20	25	35	40



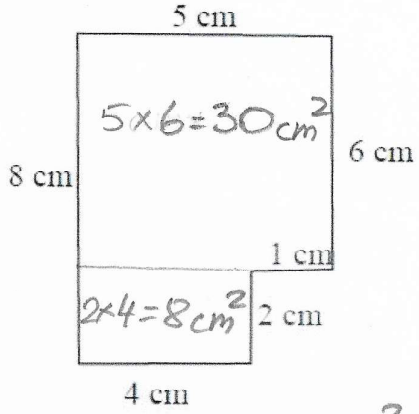
12 Find the area of the figures below.

A



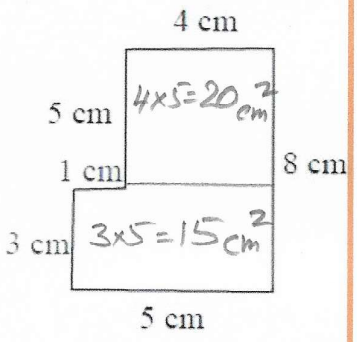
$A = 14 + 18 = 32\ cm^2$

B



$A = 30 + 8 = 38\ cm^2$

C



$A = 20 + 15 = 35\ cm^2$

13 Balance scales.

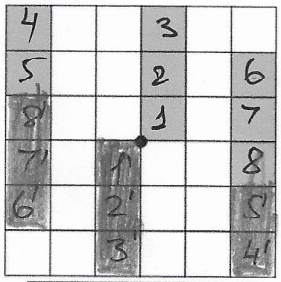
If ~~BB~~ BBB ~~AAC~~ & B AA then C AAAA ~~AAAA~~

If ~~BBBBB~~ BBBBB ~~CC~~ ~~AAA~~ & BB A then C A

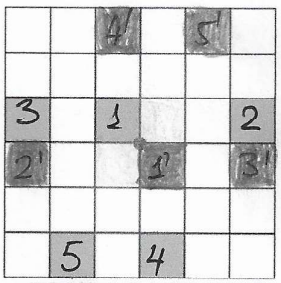
If AA BBB CC & B AA then C AAAA

If A BBBB CCC & BB A then C A

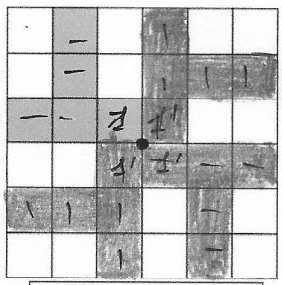
14 Finish the drawing according with the order of rotation symmetry.



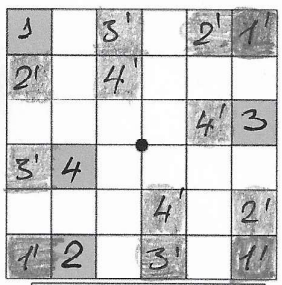
order 2



order 2

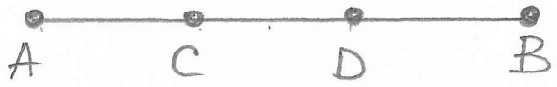


order 4



order 4

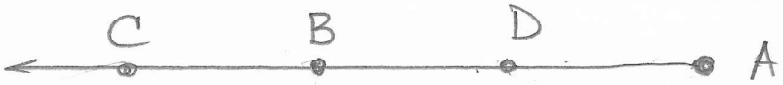
10 Use a ruler to draw a line segment; name it ***AB***. Mark points **C** and **D** on ***AB***.



How many line segments do you see in the drawing? 6

Name them: AB, AC, AD, CD, CB, DB

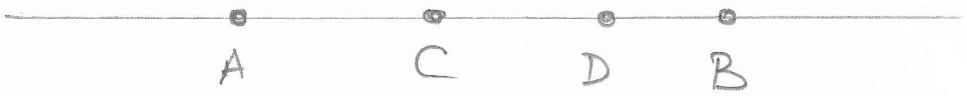
1) Use a ruler to draw a ray; name it ***AB***. Mark points **C** and **D** on ***AB***.



How many rays do you see in the drawing? 6

Name them: [AB), [AD), [AC), [DB), [DC), [BC)

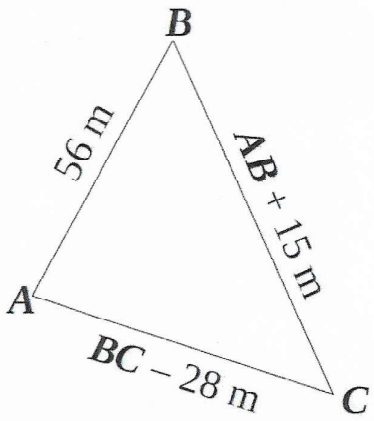
2) Use a ruler to draw a straight line; name it ***AB***. Mark points **C** and **D** on ***AB***.



How many straight lines do you see in the drawing? 6

Name them: AB, AC, AD, BC, CD, DB

11 One side of a triangle is 56 m, the second side is 15 m longer than the first. The third side of the triangle is 28 m shorter than the second. What is the perimeter of the triangle?



AB = 56 m

BC = AB + 15 m = 56 + 15 = 71 m

AC = BC - 28 m = 71 - 28 = 43 m

P = AB + BC + AC = 56 + 71 + 43 =

= 170 m

Lesson 22

Homework

1 **In your notebook,** solve the equations and check the answer. Copy your answers here.

600
800 - 200 – x = 162

x = 438

280
x + (350 – 45) - 25 = 470

x = 190

x – (140 – 10) = 520

x = 650

2 **Open up** the parentheses:

(61 + s + b) + (d – 4) = 57+s+b+d

(a + b – c) – (s – n) = a+b-c-s+n

(45 – b) + (d + 9) = 54 - b+d

f – (b – m) = f - b + m

(z + p) – (k + h) = z+p-k-h

(33 – e + r) – (d + 80 – a) = 33-e+r-d-80+a

3 Compare if possible, using >, <, or =.

$6 \times 2 \boxed{>} 6 : 2$

$7 \times 3 \boxed{>} 6 + 6 + 6$

$6 : 3 \boxed{<} 6 : 2$

$c \times 2 + c \boxed{=} c \times 3$

$y \times 4 + y \times 2 \boxed{>} y \times 5$

$24 : 6 \boxed{<} 24 : 4$

$5 \times 2 \boxed{>} 5 + 2$

$q \times 2 \boxed{>} q : 2$

$t : 2 \boxed{>} t : 3$

4 **A.** During the first three weeks of December, Sally borrowed 4 books from the library each week; during the fourth week, she borrowed 5 books. How many books did she borrow during December from the library?

3x 4 + 5 = 12 + 5 = 17 books

B. Some people have gathered to have dinner. Everyone has two plates except little Hannah, who has only has one plate. There are 10 people in addition to Hannah at the table. How many plates are on the table?

10x 2 + 1 = 20 + 1 = 21 plates