## Homework

1 In your notebook, solve the equations and check the answer. Copy your answers here.
$(350-x)+250=315$
$x=$ $\qquad$

Open up the parentheses:

| $78+(56-4)+c=$ | $a-(b-f)-(k-m)=$ |
| :--- | :--- |
| $(a-b+c)+(s-n)=$ | $(z-p)-(k+h)=$ |
| $(k-81)-(d+1)=$ | $(3+e-j)+(f-80-d)=$ |

3
Find any errors and correct them:
$\boldsymbol{n} \times 4=\boldsymbol{n}+\boldsymbol{n}+\boldsymbol{n}+\boldsymbol{n}$
$735>753$
$16 \times 3=48$
$\boldsymbol{b}-61<\boldsymbol{b}-610$
$5 \times 3=5+5$
$62 \times 4=624$
$\boldsymbol{p}+28>\boldsymbol{p}+(28+1)$
$x-22=x-(22+1)$
$y \times 3=y+y+y$

4 In the numbers below, some of the digits accidentally got erased. These digits are indicated with the wild-card symbol *. Where possible, compare the numbers using $>,<$, or $=$. Cross out the pairs which are impossible to compare.
$9 \square * 1$
$2 * \square * 7$
4* $\square 46$
5 Fill in missing numbers:
**3 $\square 8$
$59 \square 1^{* *}$
**8 $\square$ **6
$295 \square 2 * 4$
$3^{* *} \square 5^{* *}$
$\ldots \times 4=32$
$\ldots \times 7=42$
$\ldots \times 1=9$
$-\times 9=36$
$-\times 2=18$
$-\times 2=18$
$-\times 3=27$
$-\times 8=56$
$\ldots \times 4=36$
$-\times 8=24$
$5 \times \ldots=40$
$6 \times \ldots=54$
$10 \times \ldots=90$
$9 \times \ldots=18$
$3 \times-=24$

6 Measure the rectangles and find their areas $(S)$ in square centimeters and their perimeters $(P)$ in centimeters:

$S=$ $\qquad$
$\mathrm{P}=$ $\qquad$

$S=$ $\qquad$

$$
S=
$$

$\qquad$

7 Find the answer for each problem below. Then rewrite each problem using the commutative property and find the answer.

Example: $2 \times 3=6 \quad 3 \times 2=6$
$4 \times 6=$ $\qquad$
$\qquad$ $=$ $\qquad$
$7 \times 5=$ $\qquad$
$\qquad$ $=$ $\qquad$
$9 \times 8=$ $\qquad$
$\qquad$ $=$ $\qquad$
$0 \times 11=$ $\qquad$ = $\qquad$
$12 \times 3=$ $\qquad$ $=$ $\qquad$

An expedition aims to reach the North Pole from a scientific station. The expedition has 3 identical vehicles whose gas tank has enough fuel for 1 day of travel. Additionally, each vehicle can carry up to 3 canisters of fuel, each sufficient for 1 day of travel. The members of the expedition decided to start with 3 vehicles, reach the Pole with only one vehicle, and return all 3 vehicles to the station at the end. Explain how this is possible. happily in a large enclosure at the Bronx Zoo. They spend their time grazing in a sunny paddock surrounded by shady trees until one day, a mysterious stranger shows them the cartoon Madagascar. That same night, five of the animals escape from the enclosure and flee to Africa. Has
 at least one zebra abandoned its home?

10An air carrier has the following flights available in both directions:

Rome - Athens (\$350),

- Paris

Milan - Rome (\$200), . Berlin

Paris - Berlin (\$300),
Paris - Lisbon (\$300),
Athens
Warsaw - Athens (\$300),
Lisbon - Rome (\$250),
Berlin - Warsaw (\$200),
Warsaw - Milan (\$400).

Complete the graph to find the cheapest route from Lisbon to Warsaw and trace it with red.

Construct a rectangle 2 cm by 6 cm and find its perimeter. Then, construct a square with the same perimeter.

12 Write the letters of the polygons in the Venn diagram:


What is the intersection of the sets diamonds and rectangles called? $\qquad$

13 A brother and his sister are 20 years old altogether. The brother is 2 years older than his sister.

How old is the brother? $\qquad$
How old is the sister? $\qquad$

14 Write all possible three-digit numbers using
a) the digits 5, 2, 9
b) the digits $4,8,0$
if the digits cannot repeat in each number.
a)
b) green. Draw the path of the beetle on each polyhedron if he walks around all the sides. (He did not walk on any of the tops or bottoms.) Remember, to use solid lines for the parts of the path that you can see and dashed lines for parts of the path that you cannot see.


