school nova™

Name: _____

1. Evaluate:

    a. $\dfrac{2}{7} + \dfrac{3}{7} =$

    b. $\dfrac{5}{6} - \dfrac{1}{6} =$

2. Insert brackets where needed (if needed) to the following number sentences to make the equality true.

    a. $3 \times 21 + 33 = 162$

    b. $51 - 11 + 6 = 34$

    c. $60 + 22 \times 5 = 400 - 20 + 30$

3. Peter is 5 years old, and Anna is 4 times older than him. How many years is Peter younger than Anna?

4. Solve the following equations:

    a. $x + 3 = 20$ b. $x - 3 = 20$

    c. $32 - x = 20$ d. $3x = 18$

5. Write down the mathematical expressions to solve the problems:
    a. There are a total of 45 oranges packed in the 9 identical bags.
        - How many oranges are in ***one*** bag? _____
        - How many oranges will be in 3 such bags?_____

b. There are *x* oranges packed in 6 identical bags.
c. How many oranges are in ***one*** bag? _____
d. How many oranges will be in 3 such bags?_____

6. Fill the empty spaces in the problems below:

$$
\begin{array}{r}
1\;\_\;7 \\
+\,2\;3\;\_ \\
\hline
\_\;8\;4
\end{array}
\qquad\qquad
\begin{array}{r}
\_\;4\;\_ \\
-\,1\;\_\;6 \\
\hline
1\;7\;1
\end{array}
$$

7. Evaluate:

   a. $35 - 23 + 6 + 5 - 10 =$

   b. $2 \times (341 - 251 - 90) + 53(2 - 344\!:\!344) =$

8. Find the perimeter and the area of the following figure, if you know some of the sides: