## Math 4b. Homework



1. 7260 people voted in the elections in the town, which is $24 \%$ of the town's population. How many inhabitants are in the town?
2. Compute
U
(a) $\frac{16}{12}-\frac{8}{9}=$
(b) $2 \frac{5}{8}-\frac{17}{24}=$
(c) $1 \frac{1}{15}+\frac{5}{12}=$
3. Compute: (First make mixed number into irregular fraction if needed; then multiply)
(a) $\frac{9}{16} \cdot \frac{4}{45}=$
(b) $1 \frac{7}{20} \cdot \frac{4}{27}=$
R
(c) $3 \frac{3}{7} \cdot \frac{7}{24}=$
4. Compute

$$
\text { S (a) }-6-(-9)=
$$

(b) $-2-(7+6)=$
(c) $-5+(-4)=$

Y (d) $-3-(-6)+(-5)=$
5. Open parenthesis and simplify
(a) $2(a-3)-(2 a-9)=$
(b) $4 y-2(5-y)=$

I (c) $12 x-(x-4)=$
6. Solve equations

O (a) $2(3 \mathrm{x}-2)=20$
(b) $-2 x+9=-4 x+25$

T
(c) $-\mathrm{x}+8=-4 \mathrm{x}-1$
7. Write fractions as decimals:

$$
\frac{2}{5}=\quad \frac{3}{2}=\quad \square \frac{9}{4}=
$$

8. Evaluate:
(a) $0.5+\frac{1}{3}$;
C
(b) $2.82+\frac{2}{5}$;
(c) $\frac{5}{6}-0.5$

Bonus Problem: Match your answers from problems above with the numbers in the table below. Fill in orange letters corresponding to each answer. You will get the name of the apparatus that helps find out if the Planet Mars was ever inhabited.

| 3.22 | $\frac{4}{9}$ | 1 | $11 \mathrm{x}+4$ | 4 | 3 | 2.25 | -3 | -2 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
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