Ma 9A - Flashback (week 27)

1. Fill in the $t$-chart for the rule: $3 x+5=y$
2. Jane wants to host a party at the community hall. The hall charges a flat fee of $\$ 150$ plus an additional fee of $\$ 5$ per person.

Create a table of values to show the costs for the first 5 people.
$150+5$ per person

| PEOPle | Cost |  |
| :---: | :--- | :--- |
| 1 | 155 | $150+5$ |
| 2 | 160 | $150+5+5$ |
| 3 | 165 | $150+5+5+5$ |
| 4 | 170 | $150+5+5+5+5$ |
| 5 | 175 |  |

4. Simplify: $4+\left(3^{3}-5\right) \cdot 3 \div 11$
$B$
$E$
$D M$
AS

$$
\begin{gathered}
4+(27-5) \cdot 3 \div 11 \\
4+\frac{22 \cdot 3 \div 11}{4+\frac{66 \div 11}{4+6}}
\end{gathered}
$$

(10)
6. Draw algebra tile model for the opposite of $-3 x^{2}+2 x-1$
flipped

7. Solve and verify: $8 x-7=5 x+2$
legal

$$
\begin{gathered}
8 x-7=5 x+2 \\
\begin{array}{c}
8 x \\
-5 x \\
\hline 3 x-7=2 \\
+7 \\
\frac{2 x}{3}=\frac{9}{3} \\
x=3
\end{array}
\end{gathered}
$$

check:

$$
\begin{aligned}
8 x-7 & =5 x+2 \\
8 \cdot 3-7 & =5 \cdot 3+2 \\
24-7 & =15+2 \\
17 & =17 \\
& \checkmark 1
\end{aligned}
$$

true!
8. Mandy wants to wallpaper all four walls in her room. The dimensions of the floor are 5 m by 3 m . The walls are 2.5 m high. What shape are the walls? What is the area of each of the walls? Total surface area?

side walls

$$
\begin{aligned}
& A=5 \cdot 2.5 \\
& A=12.5 \mathrm{~m}^{2}
\end{aligned}
$$

there are 2 of the same size $\therefore 25 \mathrm{~m}^{2}$

* Wallpaper
only walls, law $\rightarrow$ add exp.
$\rightarrow$ walls are reqtangles $x^{7} \begin{aligned} & A=3.2 .5 \\ & A=7.5 \mathrm{~m}^{2}\end{aligned}$

9. Simplify: $\frac{x^{4} x^{5}}{x^{2}} \longrightarrow \frac{X}{x^{2}} \xrightarrow{ } X^{7} \quad 7.5 \mathrm{~m}^{2}$
there are 2 of the same $\therefore 15 \mathrm{~m}^{2}$

$$
\therefore \begin{gathered}
x^{2} \\
\therefore \text { tivisial surface area }=25+15=50 \mathrm{~m}^{2} \\
\text { subtract }
\end{gathered}
$$

subtract
exp.
10. Identify the coordinates for each:

$$
\begin{aligned}
& A=(-8,9) \\
& B=(-3,2) \\
& C=(5,0) \\
& D=(9,8) \\
& E=(0,7) \\
& F=(-6,6) \\
& G=(4,-3)
\end{aligned}
$$



