Formal methods: divide integers

Here are some divisions


What is the same and what is different about the calculations?Mo is trying to work out $248 \div 5$

a) How does Mo know the answer is not going to be a whole number?
$\qquad$
b) Work out $248 \div 5$

Write your answer in three different ways.
$49 r 3 \quad 49 \frac{3}{5} \quad 49.6$
(3) Teddy has worked out $176 \div 4$

|  |  | 0 | 9 |
| :---: | :---: | :---: | :---: | | 1 | 37 | 16 |
| :--- | :--- | :--- |
| 4 |  |  |

a) What mistake has Teddy made?
b) What is the correct answer?Work out the divisions. Give your answers as decimals.
a) $534 \div 3=$ $\qquad$
b) $426 \div 6=$
71

c) $676 \div 5=135 \cdot 2$
e) $513 \div 4=128.25$

d) $993 \div 6=165 \cdot 5$
f) $918 \div 8=114.75$

a) Work out $85 \div 7$ Give your answer to 3 decimal places.

$$
12 \cdot 143
$$

b) Write $\frac{85}{7}$ as a decimal to 3 decimal places.

$$
12 \cdot 143
$$

6 To divide a number by 12 you can divide by 6 then divide by 2
a) Use this method to work out $345 \div 12$
b) What other pair of one-digit numbers could be used instead of 6 and 2? How do you know?

7
Work out these divisions. State which strategy you used.
a) $812 \div 14=$ 58
b) $315 \div 12=$
26.25
(8)
a) $4 g=167$

$$
g=41.75
$$

b) $32 w=1,960$

Four identical rectangles are connected to form a larger rectangle.
The total area of the larger rectangle is $924 \mathrm{~cm}^{2}$


Find the perimeter of the larger rectangle.

