Use known number facts to derive other facts

Here is a bar model.
Use the bar model to work out the calculations.

a) $270+130=\square$
c) $400-270=\square$
b) $130+270=$ $\square$

Here is a bar model. Use the bar model to work out the calculations.
a) $12 \times 6=$ $\square$
d) $400-130=$ $\square$

| 72 |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 12 | 12 | 12 | 12 | 12 | 12 |

c) $72 \div 6=\square$
b) $6 \times 12=$ $\square$

Here is another bar model.
Use the bar model to work out the calculations.
a) $62+25=$

$620+250=$

$6,200+2,500=$ $\square$

## Here is a multiplication fact.

a) Use the fact to explain why $230 \times 15=3,450$
b) Use the fact to explain why $230 \times 150=34,500$
$\qquad$
$\qquad$
(3)


Explain how each student can use Teddy's calculation to work out their problem.
a)

$\qquad$
b)

$\qquad$
c)

$\qquad$
d) Use Teddy's calculations to work out these problems.


6 Here is a multiplication fact.

$$
17 \times 39=663
$$

Use the fact to work out the calculations.
a) $170 \times 39=$ $\square$
e) $1.7 \times 3.9=$ $\square$
b) $17 \times 390=$ $\square$
f) $663 \div 17=\square$
c) $1.7 \times 39=$ $\square$
g) $66,300 \div 1.7=$
h) $66.3 \div 17=$ $\square$

Mo works out a multiplication fact on his calculator.
a) Circle any calculations that will give the same answer.

| $360 \times 45$ | $45 \times 36$ | $3.6 \times 4.5$ |
| :--- | :--- | :--- |
| $3.6 \times 450$ | $450 \times 360$ | $360 \times 4.5$ |

b) Write another related calculation that will give the same answer.
(8) Complete each calculation in three different ways.
$72 \times 11=792$


