Multiplication and division with algebra
d)
b)

c)

f)


(2)

Simplify the expressions.
a) $3 \times 5=$ $\square$
b) $18 x y \div 6=$ $\square$

$18 x y \div 6 x=$ $\square$

$\square$
$3 a \times 5 a=$ $\square$
$3 a \times 5 b=$ $\square$

$$
18 x y \div 3 x y=\square
$$

$$
18 x^{2} y \div 3 x y=\square
$$

The area of a rectangle is $8 a b$.
$8 a b$ units $^{2}$Sort the expressions into three groups.


| Group 1 | Group 2 | Group 3 |
| :--- | :--- | :--- |
|  |  |  |
|  |  |  |
|  |  |  |

The area of a triangle is $3 p^{2}$
Find four possible combinations of bases and heights that would give this area.

| Base | Perpendicular height |
| :---: | :--- |
|  |  |
|  |  |
|  |  |
|  |  |

a) Here are four cards showing expressions.


Put the cards in ascending order when $w=5$ and $r=11$

b) Find values for $w$ and $r$ that will change the order of the expressions. Show how you worked out your answer.

$\square$

Explain why it is possible to simplify $2 b \times 5 c$ but not $2 b+5 c$
$\qquad$
$\qquad$

