For each of the rectangle below write an expression that represents its area.

1. A =

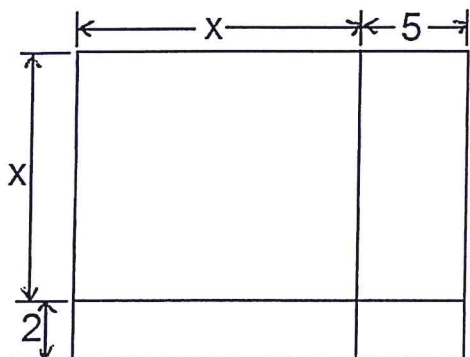2. A =

$3a^2b^4$
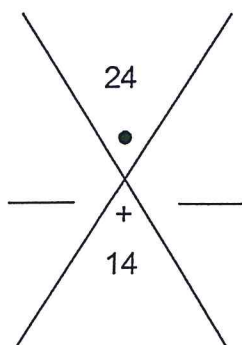
$12ab^3$

$2cd$
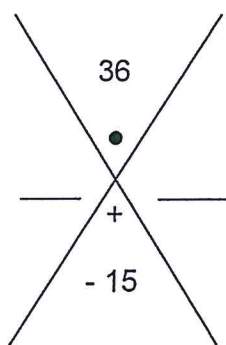
$7c^5d$ $5cd^2$

3. A =

X   5

X

2

For the remaining problems your job is to find two numbers to put on the left and right side of the X so that they multiply to the number at the top and add to the number at the bottom.

4.

24

+

14

5.

36

+

- 15

6.

- 18

+

-17

7.

- 48

+

13

1

For each of the rectangle below write an expression that represents its area.

1. $A = (12ab^3)(3a^2b^4) = \boxed{36a^3b^7}$

2. $A = \boxed{14c^6d^2 + 10c^2d^3}$

$A = L \cdot W$	$3a^2b^4$

$12ab^3$

$A = (7c^5d)(2cd) = 14c^6d^2$	$A = (5cd^2)(2cd) \ 10c^2d^3$	$2cd$

|—— $7c^5d$ ——|— $5cd^2$ —|

3. $A = x^2 + 5x + 2x + 10 = \boxed{x^2 + 7x + 10}$

← —— x —— →	← 5 →
$A = x \cdot x = \boxed{x^2}$	$A = 5 \cdot x = \boxed{5x}$
$A = 2 \cdot x = \boxed{2x}$	$A = 2 \cdot 5 = \boxed{10}$

x (left side), 2 (bottom left)

For the remaining problems your job is to find two numbers to put on the left and right side of the X so that they multiply to the number at the top and add to the number at the bottom.
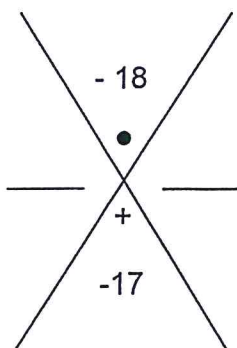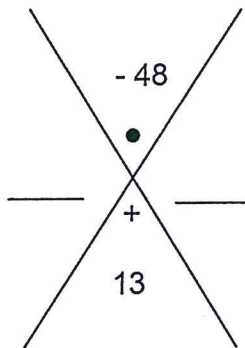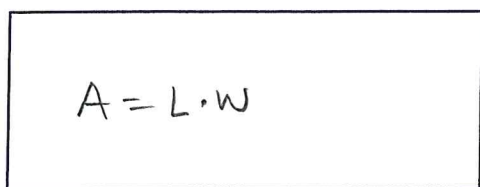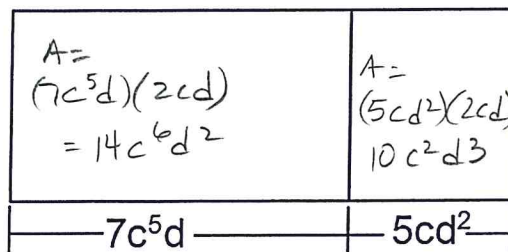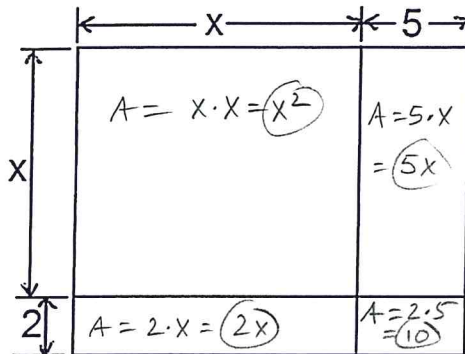
4.
```
      24
  12  •  2
     +
     14
```

5.
```
      36
 -12  •  -3
     +
    -15
```

6.
```
     -18
 -18  •  1
     +
    -17
```

7.
```
     -48
  16  •  -3
     +
     13
```

1