Name_____

# Distributive Property with Area Diagrams, Numeric
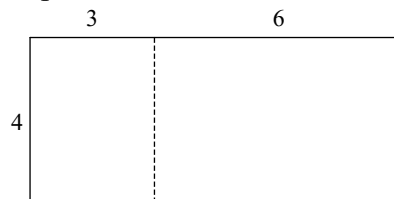
Date_____ Period_____

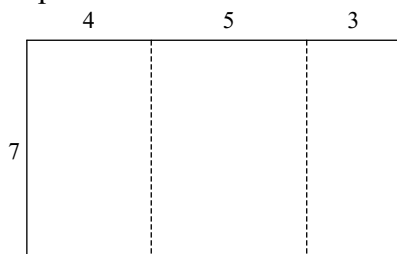**Solve each problem.**

1) The area of the outer rectangle can be expressed as $3(5 + 6)$. Can we also express the area as $3 \times 5 + 3 \times 6$?
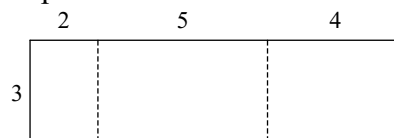
| 5 | 6 |
|---|---|

3

2) The area of the outer rectangle can be expressed as $4(3 + 6)$. Can we also express the area as $4 + 3 + 6$?

| 3 | 6 |
|---|---|

4

3) The area of the outer rectangle can be expressed as $7(4 + 5 + 3)$. Can we also express the area as $7 + 4 + 5 + 3$?
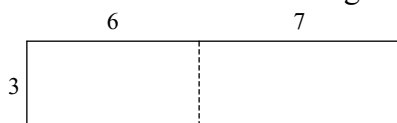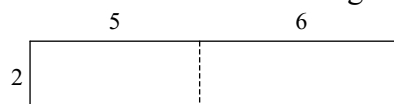
| 4 | 5 | 3 |
|---|---|---|

7

4) The area of the outer rectangle can be expressed as $3(2 + 5 + 4)$. Can we also express the area as $3 \times 2 + 3 \times 5 + 3 \times 4$?
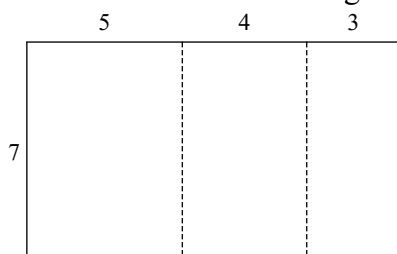
| 2 | 5 | 4 |
|---|---|---|

3

5) The area of the outer rectangle can be expressed as $3(6 + 7)$. How can we express express the same area as the sum of the areas of the smaller rectangles?

| 6 | 7 |
|---|---|

3

6) The area of the outer rectangle can be expressed as $2(5 + 6)$. How can we express express the same area as the sum of the areas of the smaller rectangles?

| 5 | 6 |
|---|---|

2

7) The area of the outer rectangle can be expressed as $7(5 + 4 + 3)$. How can we express express the same area as the sum of the areas of the smaller rectangles?

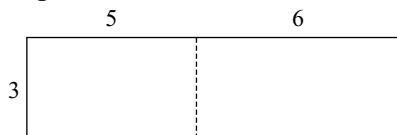| 5 | 4 | 3 |
|---|---|---|

7

Name_____

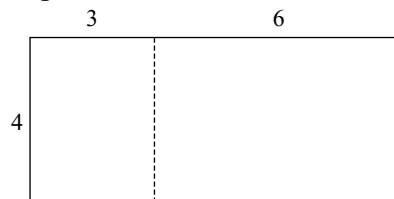# Distributive Property with Area Diagrams, Numeric

Date_____ Period_____

**Solve each problem.**

1) The area of the outer rectangle can be expressed as $3(5 + 6)$. Can we also express the area as $3 \times 5 + 3 \times 6$?
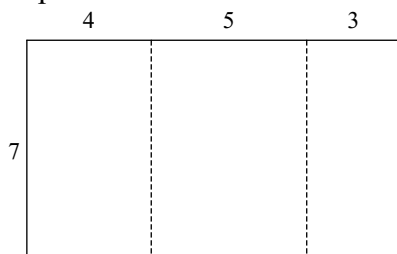
5    6

3

Yes

2) The area of the outer rectangle can be expressed as $4(3 + 6)$. Can we also express the area as $4 + 3 + 6$?
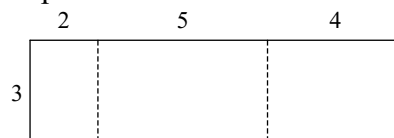
3    6

4

No

3) The area of the outer rectangle can be expressed as $7(4 + 5 + 3)$. Can we also express the area as $7 + 4 + 5 + 3$?
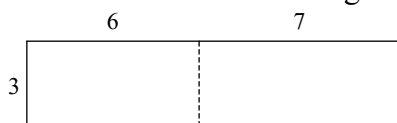
4    5    3

7

No

4) The area of the outer rectangle can be expressed as $3(2 + 5 + 4)$. Can we also express the area as $3 \times 2 + 3 \times 5 + 3 \times 4$?
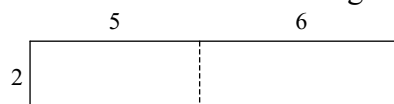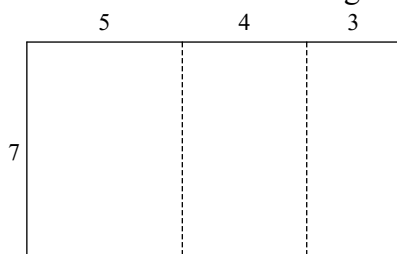
2    5    4

3

Yes

5) The area of the outer rectangle can be expressed as $3(6 + 7)$. How can we express express the same area as the sum of the areas of the smaller rectangles?

6    7

3

$3 \times 6 + 3 \times 7$

6) The area of the outer rectangle can be expressed as $2(5 + 6)$. How can we express express the same area as the sum of the areas of the smaller rectangles?

5    6

2

$2 \times 5 + 2 \times 6$

7) The area of the outer rectangle can be expressed as $7(5 + 4 + 3)$. How can we express express the same area as the sum of the areas of the smaller rectangles?

5    4    3

7

$7 \times 5 + 7 \times 4 + 7 \times 3$