**Directions**: Match the unit from the left column to an answer in the right column.

| | |
|---|---|
| 6 eights | 27 |
| 7 sixes | 48 |
| 3 nines | (4 x 5) + (4 x 3) |
| 8 fours | (5 x 6) + (2 x 6) |
| 8 eights | (5 x 5) + (5 x 4) |
| 9 fives | 12 |
| 6 twos | 64 |

# Decompose a Factor

16 x 3 = ___

(10 x 3) + (6 x 3) = ___

30 + 18 = 48

1. Break apart the larger factor (16) into tens and ones.
2. Multiply each part (10 & 6) by the smaller factor (3).
3. Add the products to find the total.

23 x 4 = ___

(20 x 4) + (___x 4) = ___

___ + ___ = ___

28 x 4 = ___

(20 x ___) + (8 x ___) = ___

___ + ___ = ___

27 x 3 = ___

(___ x 3) + (7 x 3) = ___

___ + ___ = ___

34 x 4 = ___

(___x ___) + (___ x ___) = ___

___ + ___ = ___

17 x 5 = ___

(___ x 5) + (___ x 5) = ___

___ + ___ = ___

18 x 5 = ___

(___x ___) + (___ x ___) = ___

___ + ___ = ___

# Decompose a Factor

16 x 3 = ___

(10 x 3) + (6 x 3) = ___

30 + 18 = 48

1. Break apart the larger factor (16) into tens and ones.
2. Multiply each part (10 & 6) by the smaller factor (3).
3. Add the products to find the total.

47 x 4 = ___

(40 x 4) + (___x 4) = ___

___ + ___ = ___

36 x 3 = ___

(30 x ___) + (6 x ___) = ___

___ + ___ = ___

64 x 3 = ___

(___ x 3) + (4 x 3) = ___

___ + ___ = ___

47 x 4 = ___

(___x ___) + (___ x ___) = ___

___ + ___ = ___

14 x 6 = ___

(___ x 6) + (___ x 6) = ___

___ + ___ = ___

13 x 8 = ___

(___x ___) + (___ x ___) = ___

___ + ___ = ___

# Area of a Rectangle

To determine the area of a rectangle multiply the length by the width.

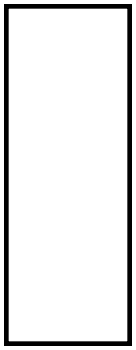
11 cm

3 cm 

11 cm x 3 cm = a

A = 33 square cm

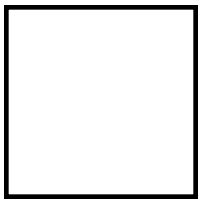
Shape A




a = _____

Shape B

5 cm



a = _____

Shape C

10 cm

4 cm 

a = _____

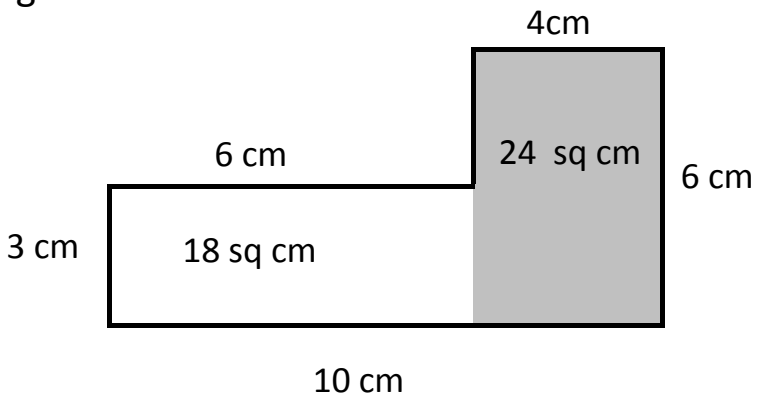
1. What is the area of Shape A and Shape be combined?

2. What is the area of all three shapes?

3. How much larger is the area of Shapes A & B combined than Shape C?

# Area of a Rectangle

You can find the area of an irregular object by decomposing it into smaller rectangles.




4 cm x 6 cm = a

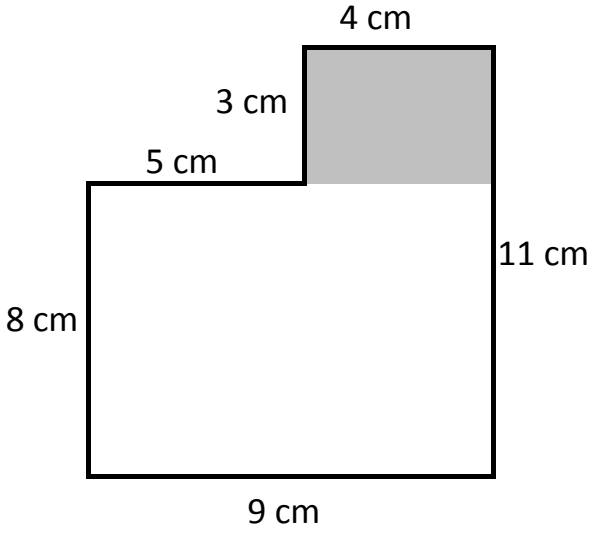
a = 24 sq cm

3 cm x 6 cm = a

a = 18 sq cm

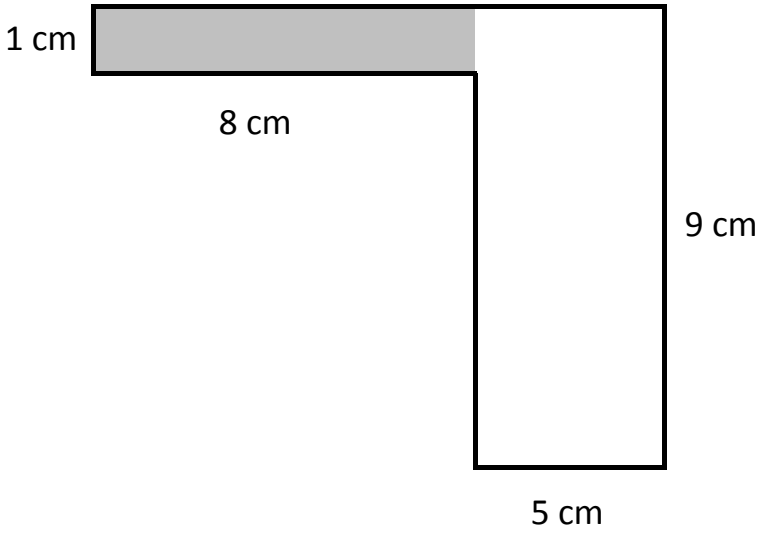
18 sq cm + 24 sq cm = 42 sq cm

Shape A




a = _____

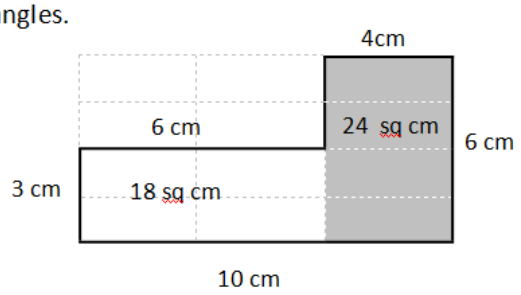
Shape B




a = _____

# Area of a Rectangle

You can find the area of an irregular object by decomposing it into smaller rectangles.



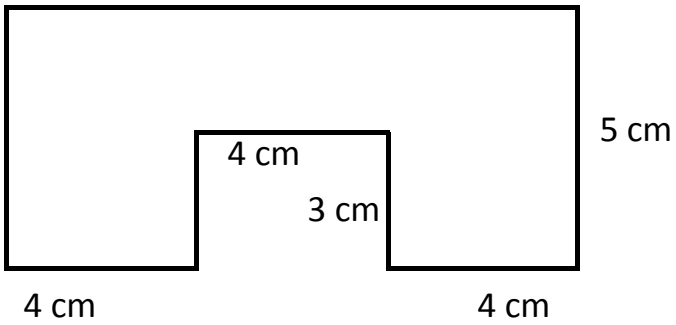

4 cm x 6 cm = a

a = 24 sq cm

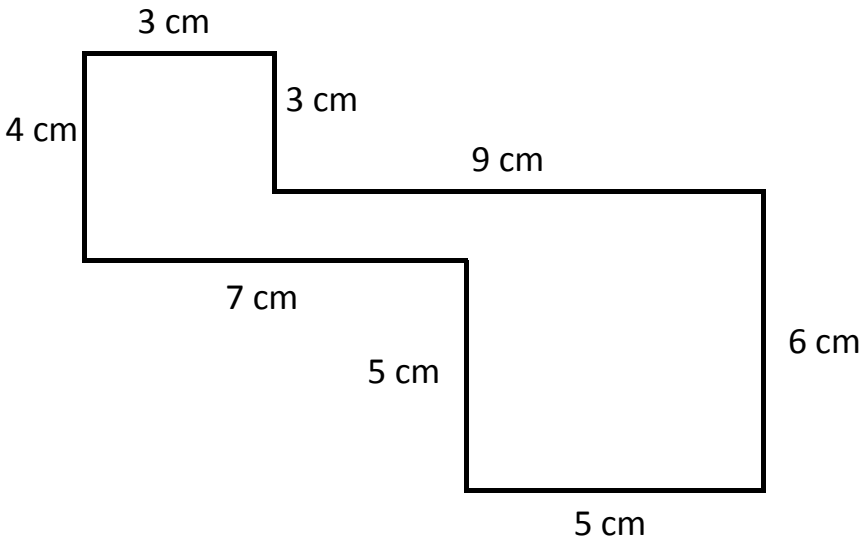
3 cm x 6 cm = a

a = 18 sq cm

18 sq cm + 24 sq cm = 42 sq cm



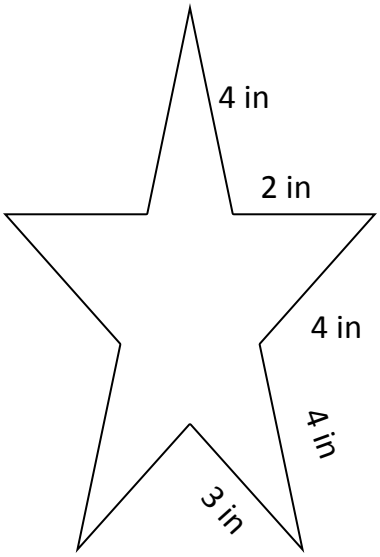

a = _____



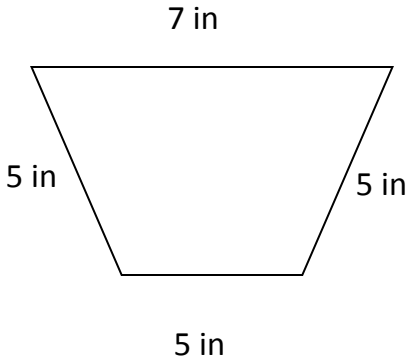

a = _____

# Perimeter of a Polygon

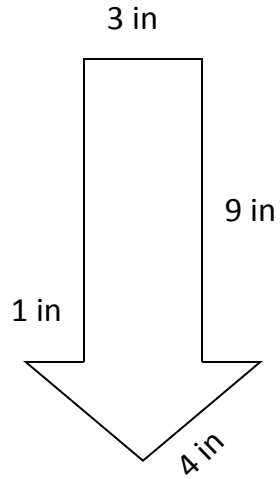
The perimeter of a polygon can be calculated by adding together the length of all sides.



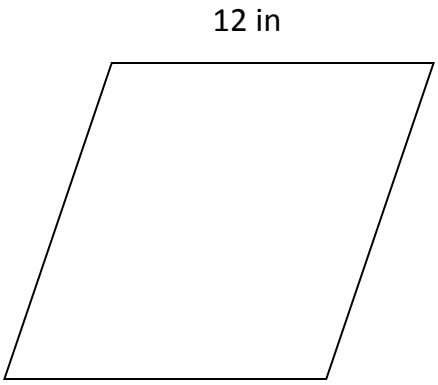

P = _____



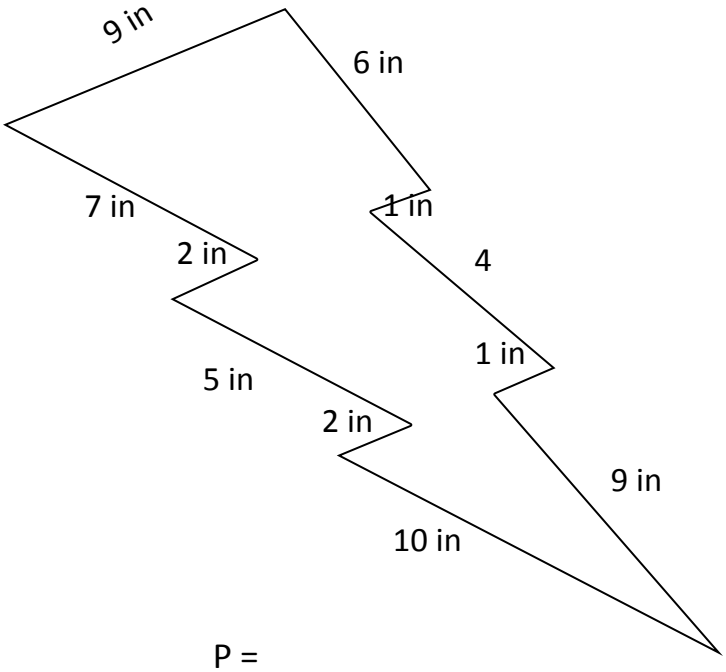

P = _____




P = _____




P = _____




P = _____

# Input / Output

Directions: Observe how the numbers change from the input column to the output column to identify the rule. Complete the tables.

| Input | Output |
|---|---|
| 5 | 25 |
| | 15 |
| 9 | |
| 7 | 35 |
| | 50 |

Rule: Multiply by 5

| Input | Output |
|---|---|
| 3 | 9 |
| 9 | |
| 7 | 21 |
| | 30 |
| | 15 |

Rule: _____

| Input | Output |
|---|---|
| 7 | |
| 49 | 7 |
| 35 | |
| 70 | 10 |
| | 6 |

Rule: _____

| Input | Output |
|---|---|
| | 140 |
| 2 | 4 |
| 50 | 100 |
| 65 | |
| | 180 |

Rule: _____

| Input | Output |
|---|---|
| 36 | 6 |
| | 8 |
| 42 | |
| 12 | 2 |
| 54 | |

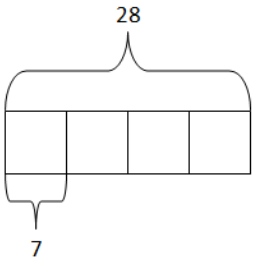
Rule: _____

| Input | Output |
|---|---|
| 8 | |
| | 28 |
| 12 | |
| 5 | 20 |
| 1 | 4 |

Rule: _____

# Tape Diagrams

Directions: Complete the missing information for each tape diagram and write 4 related facts.



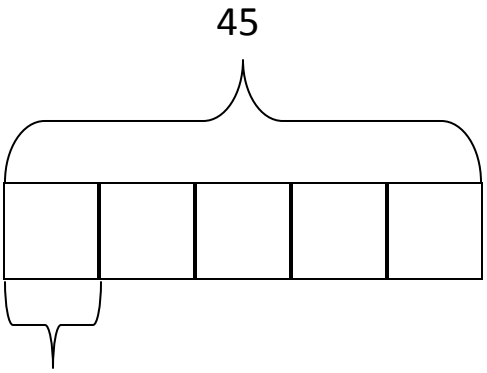

Related Facts

4 x 7 = 28

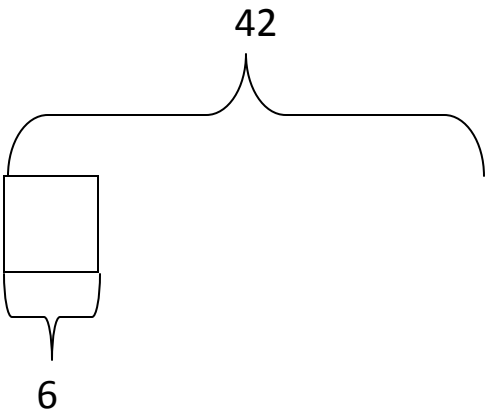
7 x 4 = 28

28 ÷ 4 = 7

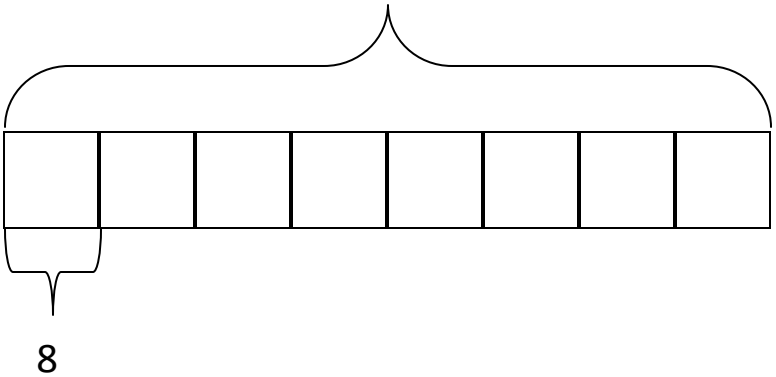
28 ÷ 7 = 4




Related Facts



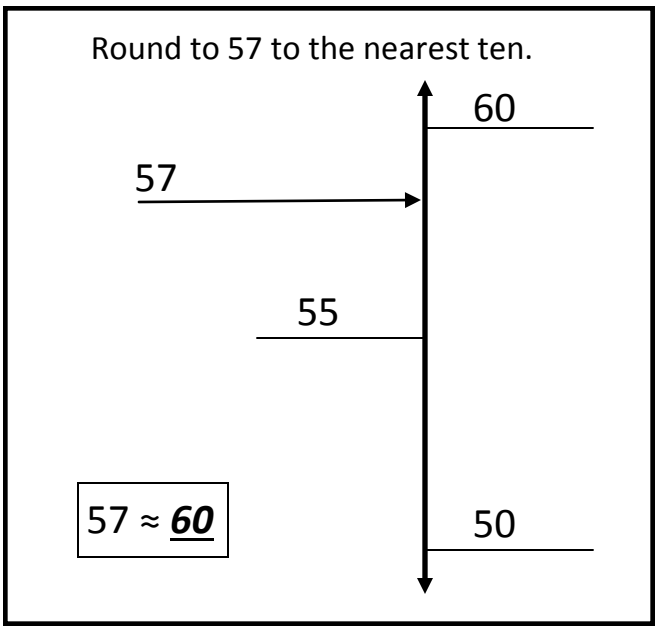

Related Facts



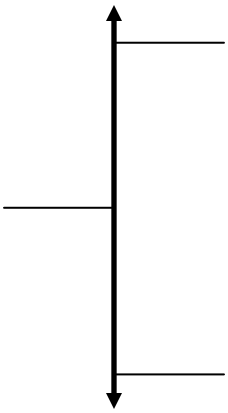

Related Facts

# Rounding

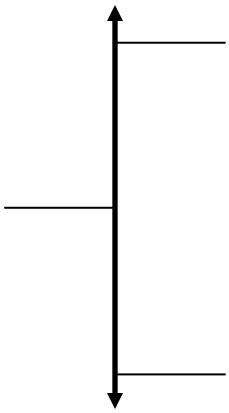
To round on a vertical number label the you round up to (60), round down to (50), and the midpoint (55). Place the number you are rounding (57) on the number line and determine which number it is closer to.



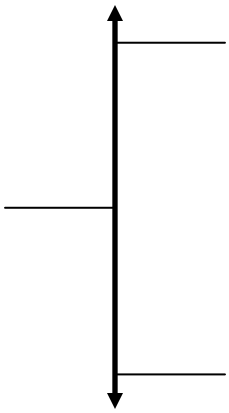

Directions: Round to 57 to the nearest ten



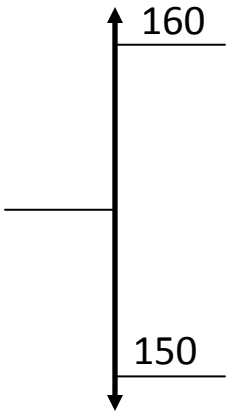
38 ≈ ___



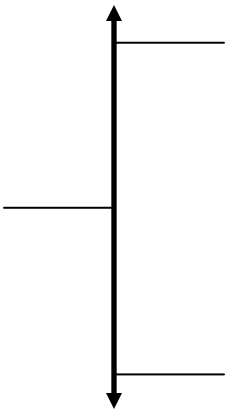
43 ≈ ___



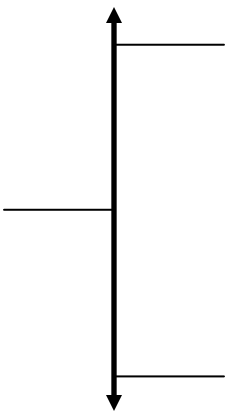
74≈ ___




157 ≈ ___



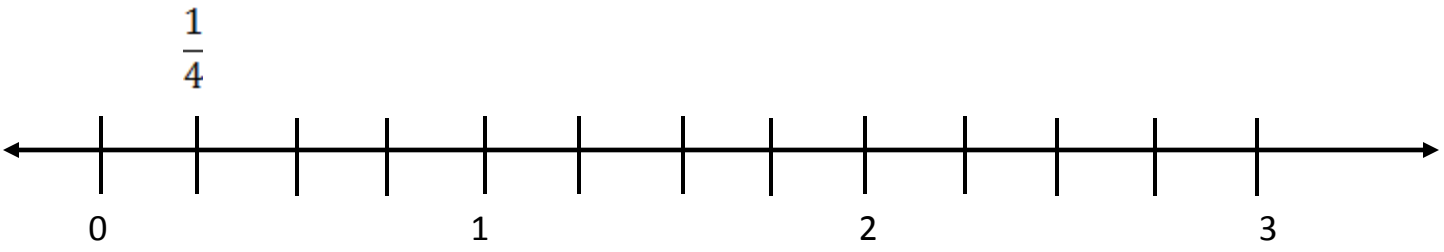
257 ≈ ___

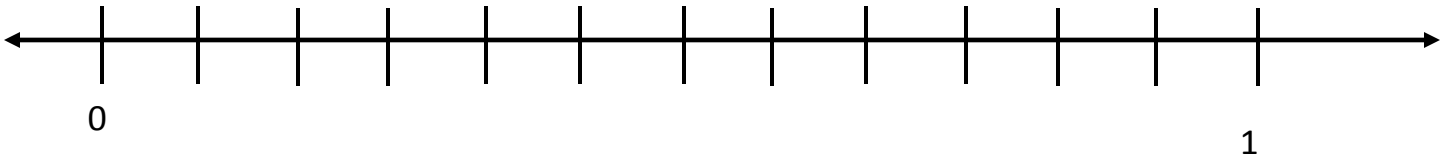


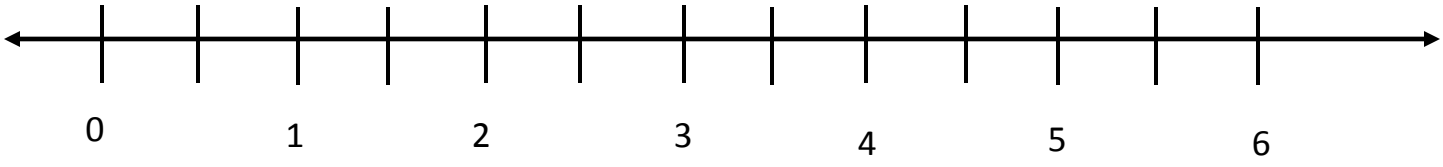
698 ≈ ___

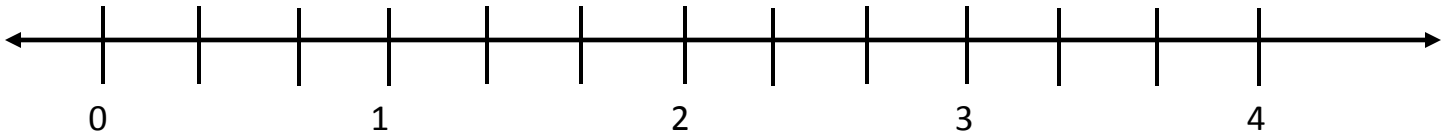
# Fractions on a Number Line

Directions: Label the ticks on the number line with the appropriate fraction.



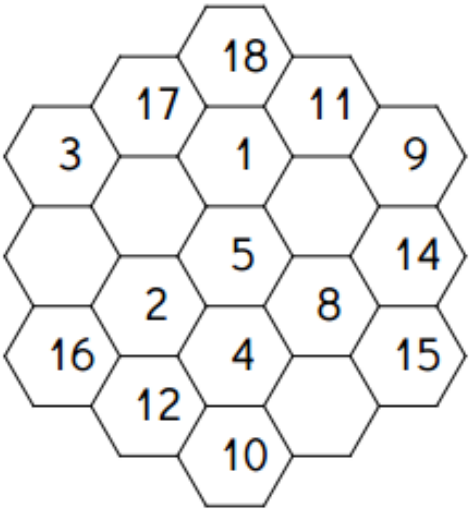



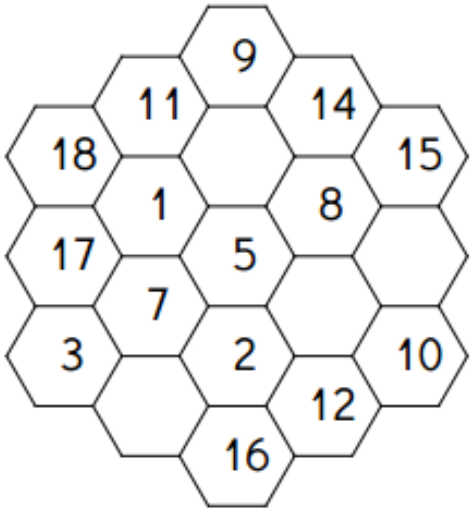




Create a number line using a unit fraction of your choice.

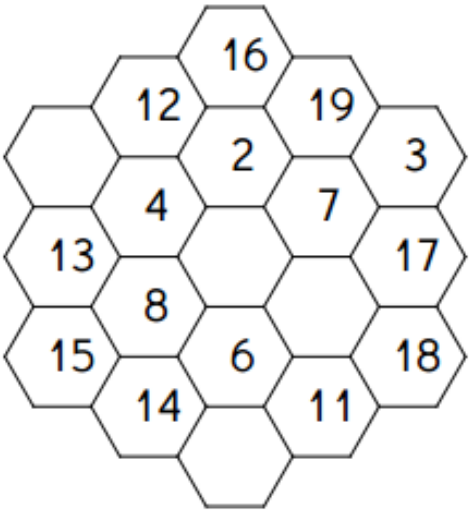
# Hexagon Puzzles



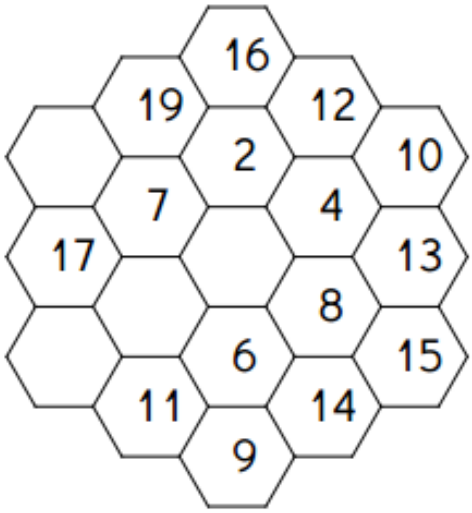

Write the numbers 1 to 19,
so that each row and diagonal
has the same sum




Write the numbers 1 to 19,
so that each row and diagonal
has the same sum




Write the numbers 1 to 19,
so that each row and diagonal
has the same sum




Write the numbers 1 to 19,
so that each row and diagonal
has the same sum