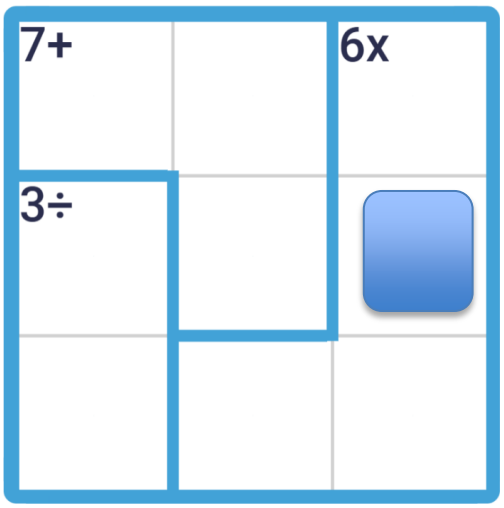
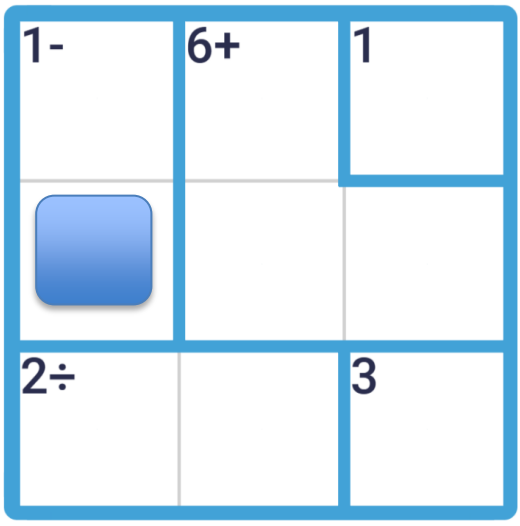
Backup Paper:

Math-Doku:

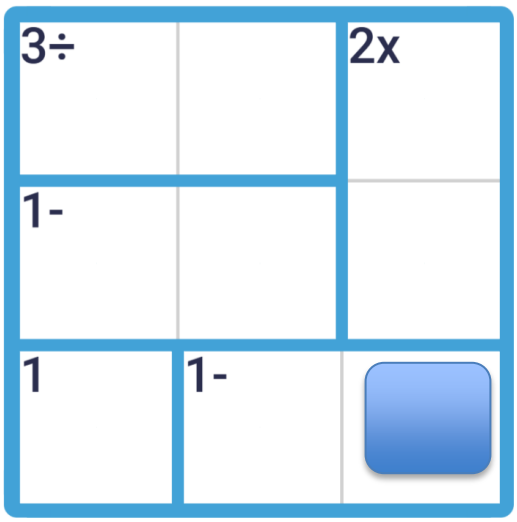
Fill the grid with the numbers from 1 to n, where n is the total number of rows or columns, such that each number appears only once in each row and column. ***Find the value of the Blue Shaded region.*** The Math-Doku grid is also divided in outlined regions called cages each with a given operator and target number. The numbers in the individual cells of a cage must produce that target number using the operator in a mathematical calculation.

1. 

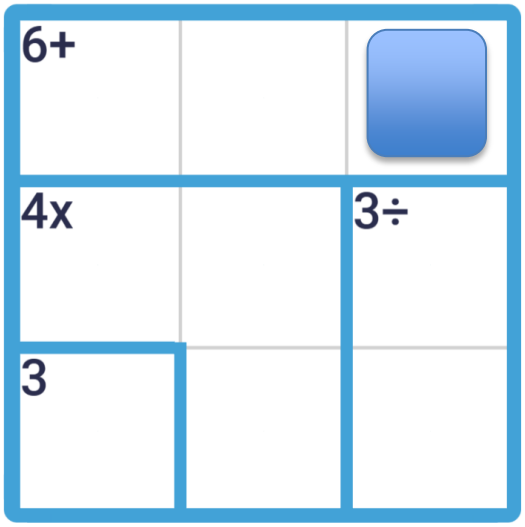
   A.1
   B.2
   C.3
   D.4

2. 

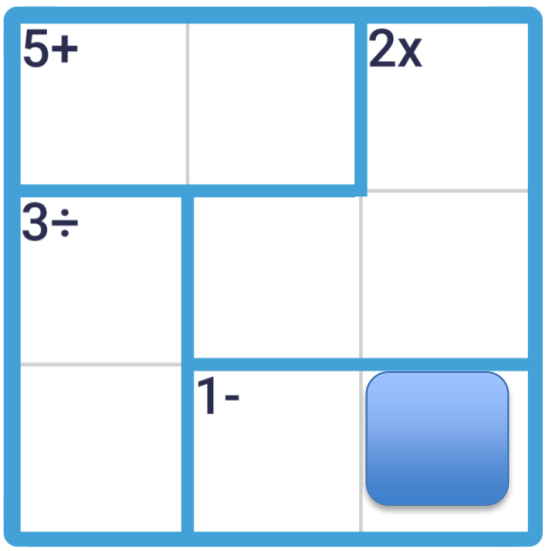
A. 2
B. 1
C. 4
D. 3

3. 

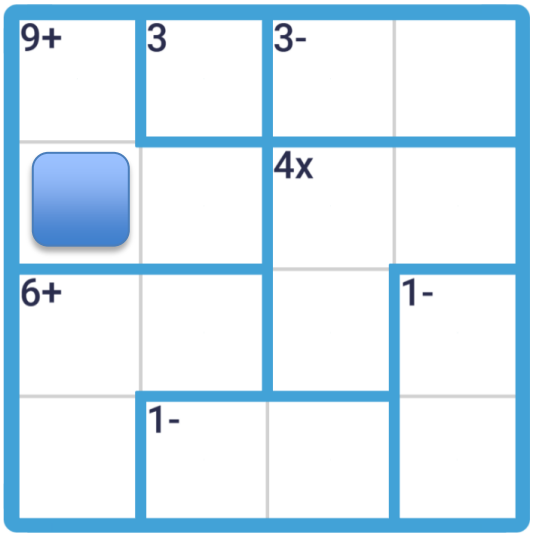
A. 2
B. 1
C. 4
D. 3

4. 

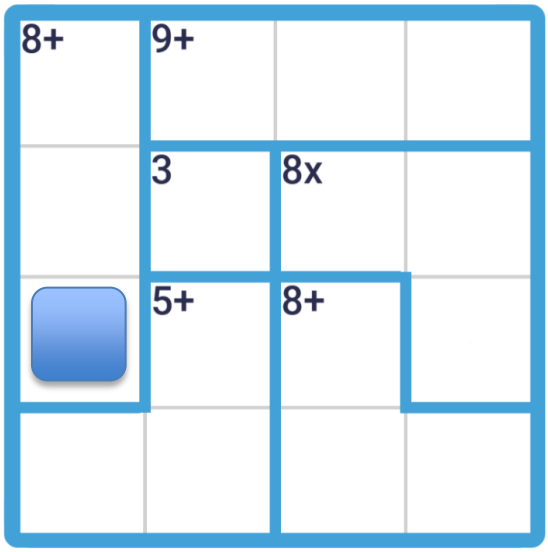
A. 2
B. 1
C. 4
D. 3

5. 

A. 2
B. 3
C. 4
D. 1

6. 

A. 1
B. 2
C. 4
D. 3

7. 

A. 2
B. 1
C. 4
D. 3

Maths Nature:

1. Which pattern is often observed in the spots of a cheetah?
   A) Polka dots
   B) Wavy lines
   C) Geometric shapes
   D) Stripes

2. What symmetry is seen in a perfectly round ball?
   A) Bilateral symmetry
   B) Radial symmetry
   C) Asymmetry
   D) Reflective symmetry

3. How do the leaves of a maple tree demonstrate symmetry?
   A) They have irregular shapes.
   B) They are arranged randomly on branches.
   C) They are symmetrically arranged along the stem.
   D) They form geometric shapes.

4. Which animal exhibits symmetry in its body shape, allowing it to move gracefully in water?
   A) Dolphin
   B) Elephant
   C) Snake
   D) Crocodile

5. How do the spots on a leopard demonstrate patterns in nature?
   A) By forming concentric circles
   B) By creating a checkerboard pattern
   C) By arranging themselves in rows
   D) By displaying irregular shapes

6. What pattern is commonly found in the skin of a giraffe?
   A) Squiggly lines
   B) Hexagons
   C) Scales
   D) Spots

7. Which of the following flowers often display radial symmetry?
   A) Tulip
   B) Daisy
   C) Rose
   D) Orchid

Common Core Math Relay Race:

1. Jane jogs 6 times per week. Fred jogs 4 times per week. Both Jane and Fred jog 3 miles each time. How many miles do Jane and Fred jog in a week in total?
   A.32
   B.25
   C.30
   D.28

2. Which best describes the following pattern of numbers: 2, 6, 18, 54, 162, ...

   A. Each number is 6 more than the previous number.
   B. Each number is 3 more than the previous number.
   C. Each number is 6 times the previous number.
   D. Each number is 3 times the previous number.

3. Felix's office has an area of 80 square feet. The width of his office is 8 feet. What is the length of his office? (Consider it is rectangular)

   A. 20
   B. 12
   C. 10
   D. 18

4. The value of digit 6 in the number 21,683 is 10 times greater than the value of the digit 6 in which of the following numbers?

   A. 36,783
   B. 572,964
   C. 162,274
   D. 47,618

5. Solve the equation below.

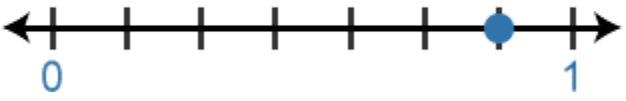
7 x 21= _____

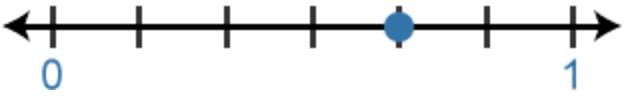
A. 96
B. 147
C. 174
D. 127

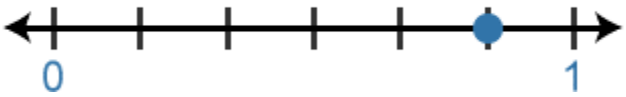
6. Ms. Jackson's class is having a read-a-thon. One of her students, Lindsey, read 20 pages of her book each hour for 3 hours. Another student, Leon, read 40 pages of his book each hour for 3 hours. What is the difference in the number of pages Lindsey and Leon have read so far?

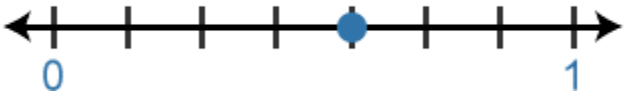
A. 50
B. 20
C. 60
D. 30

7. Which of the following number lines shows a point at $\frac{4}{7}$?

A. 

B. 

C. 

D. 

8. Which expression is equal to $\frac{95}{100}$?

A. $\frac{9}{10} + \frac{5}{100}$
B. $\frac{8}{5} + \frac{9}{100}$
C. $\frac{50}{10} + \frac{4}{100}$
D. $\frac{8}{10} + \frac{6}{100}$

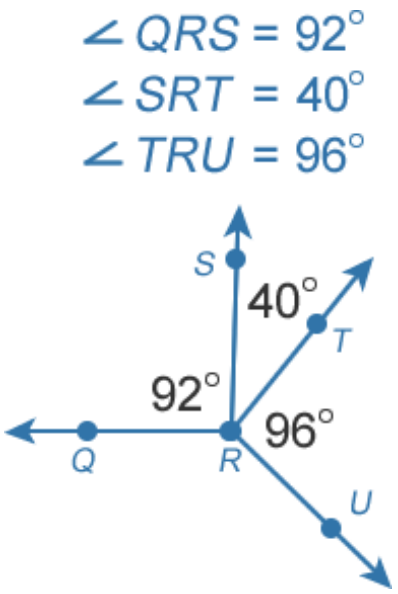
9. There were different beverages served at a party. There was $1\frac{7}{12}$ gallons more of fruit punch served than orange juice served. Find the amount of fruit punch served.

A. $2\frac{2}{12}$
B. $2\frac{5}{12}$
C. $2\frac{7}{12}$
D. $3\frac{3}{12}$

Beverage	Amount (gal)
Orange Juice	$\frac{10}{12}$
Ice Tea	$2\frac{6}{12}$
Lemonade	$1\frac{8}{12}$
Fruit Punch	?

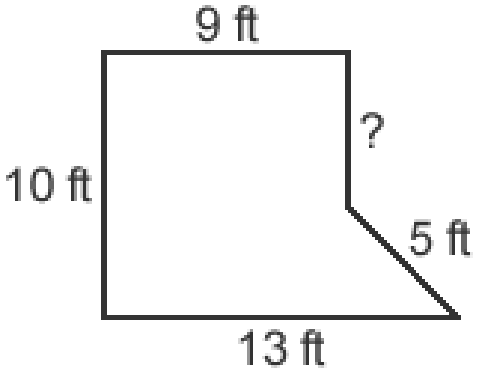
10. Enter the measure of angle *QRT*.

A. 188°
B. 132°
C. 136°
D. 228°

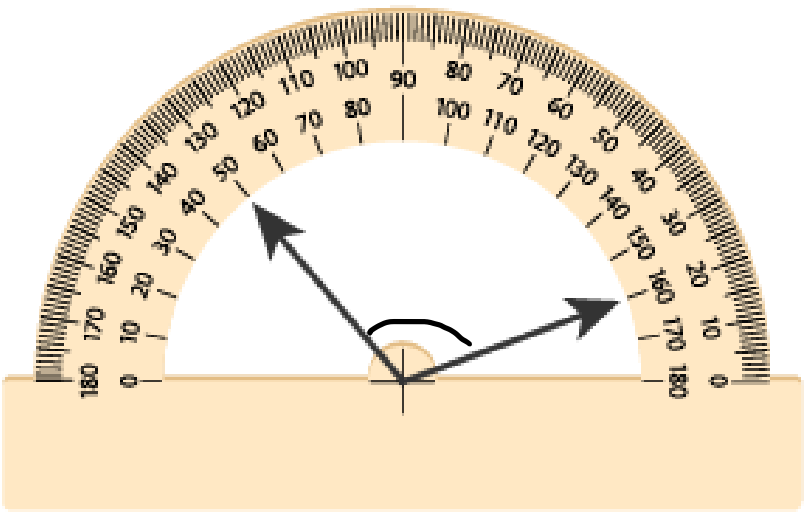


11. The shape below has a perimeter of 42 feet.
What is the length of the unknown side?

A. 6 ft
B. 5 ft
C. 7 ft
D. 10 ft



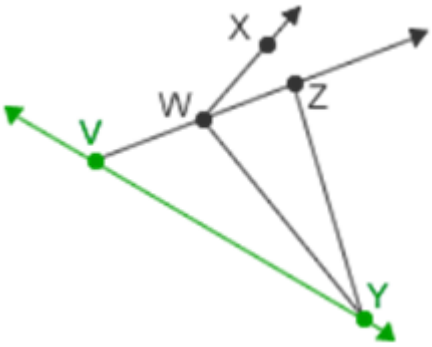
12. What is the measure of the angle above?



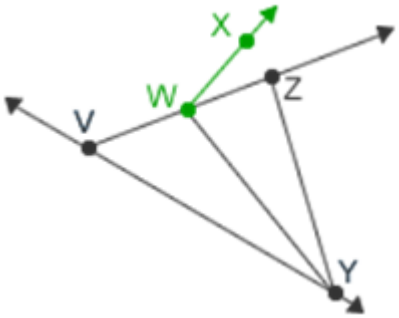
A. 210°
B. 120°
C. 180°
D. 110°

13. Select the figure below that shows a green line.

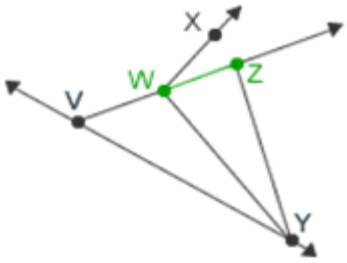
A.



B.



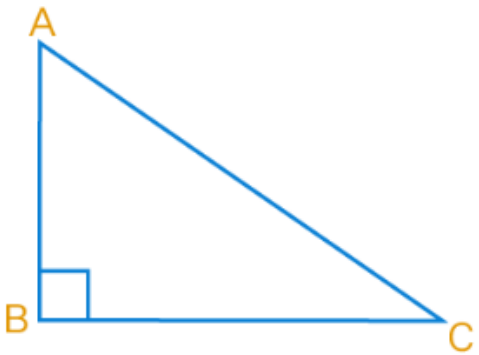
C.



D. None Of The Above.

14. Which of the following terms classifies the triangle by its angles?

A. acute triangle
B. right triangle
C. obtuse triangle
D. None of these



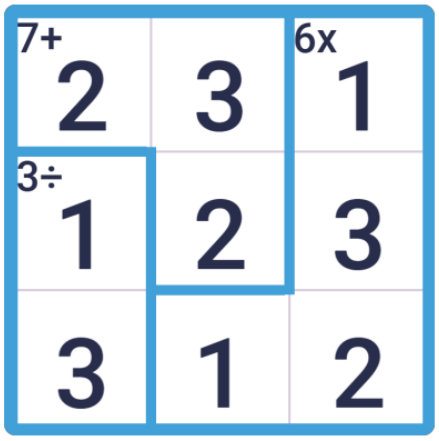
15. Evvie wants to draw a shape that is a kite, but not a rhombus. Which of the following properties should her shape have?

A. 4 equal sides
B. 2 pairs of equal adjacent sides that are not the same length
C. 4 square corners
D. 2 pairs of equal opposite sides that are not the same length

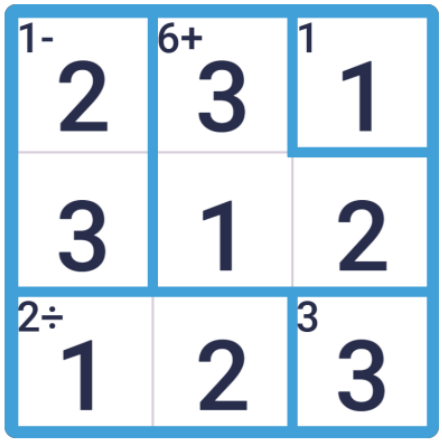
Answers:

Math-Doku:

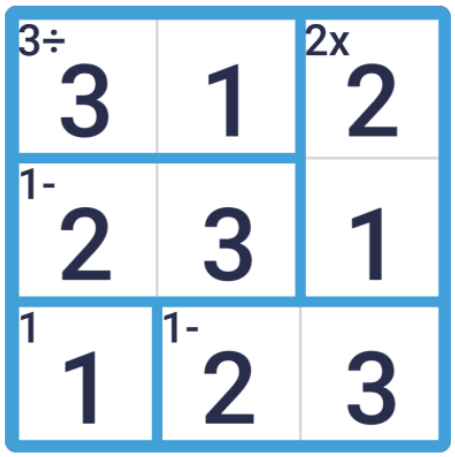
1.



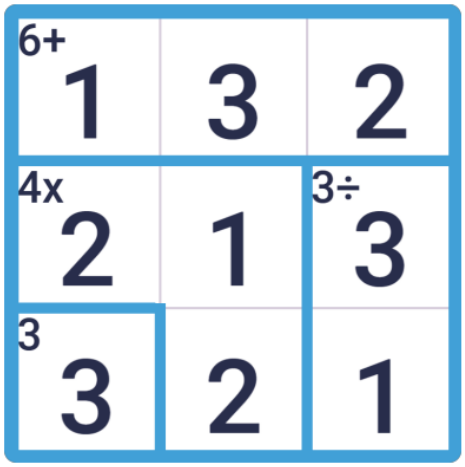
2.



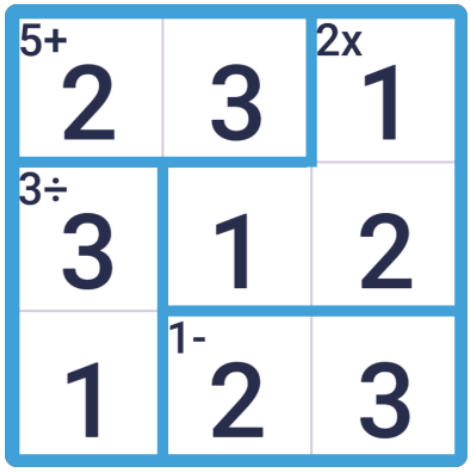
3.



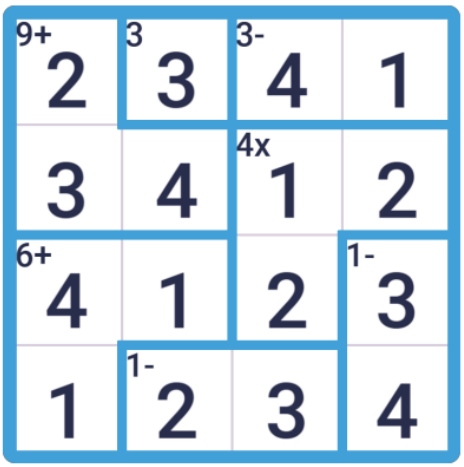
4.


6+ 1 3 2
4x 2 1 3÷ 3
3 3 2 1

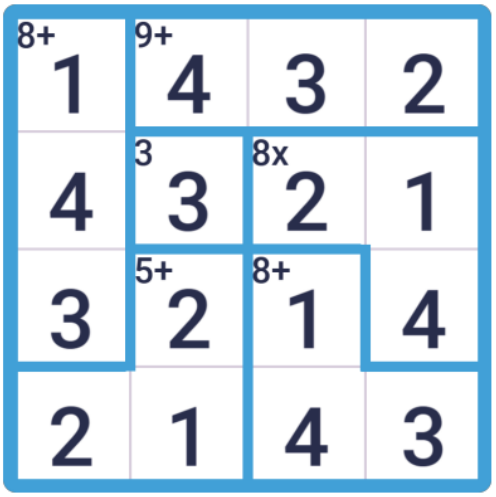
5.


5+ 2 3 2x 1
3÷ 3 1 2
1 1- 2 3

6.


9+ 2 3 3 3- 4 1
3 4 4x 1 2
6+ 4 1 2 1- 3
1 1- 2 3 4

7.



Maths Nature:

1. **Answer:** D) Stripes

The spots on a cheetah often form a pattern of elongated, tear-shaped spots, resembling stripes more than other options.

2. **Answer:** B) Radial symmetry

A perfectly round ball exhibits radial symmetry, with features radiating from its centre in all directions.

3. **Answer:** C) They are symmetrically arranged along the stem.

The leaves of a maple tree demonstrate symmetry by being symmetrically arranged along the stem.

4. **Answer:** A) Dolphin

Dolphins exhibit bilateral symmetry in their body shape, allowing them to move gracefully in water.

5. **Answer:** C) By arranging themselves in rows.

The spots on a leopard demonstrate a pattern by being arranged in rows along its body.

6. **Answer:** D) Spots

The skin of a giraffe commonly features spots as a distinctive pattern.

7. **Answer:** B) Daisy

Daisies often display radial symmetry, where petals radiate outward from the centre of the flower.

Common Core Math Relay Race:

1. **Answer:** C) (6+4) *3 = 30 miles
2. **Answer:** D)
3. **Answer:** C) 80/8 = 10ft
4. **Answer:** B) Place value of 6 in 21,683 is 600 which is ten times the value of place value of 6 in 572,964 is 60.
5. **Answer:** B) 147
6. **Answer:** C) (40*3) - (20*3) = 120 – 60 = 60 pages
7. **Answer:** D)
8. **Answer:** A) 9/10 + 5/100 = (90+5)/100=95/100
9. **Answer:** B) 19/12+10/12 = 29/12 = 2 5/12
10. **Answer:** B) 92+40=132 degrees
11. **Answer:** B) 42ft – 10ft – 9ft – 5ft – 13ft = 5ft
12. **Answer:** D) 160-50 = 110 degrees
13. **Answer:** A) Because a line goes in both directions indefinitely.
14. **Answer:** B) Right Triangle
15. **Answer:** B) 2 pairs of equal adjacent sides that are not the same length.