CSMP Mathematics for the Upper Primary Grades Part IV

Worksheets

What's In This Book?

This book contains all the worksheets you will need for *CSMP for the Upper Primary Grades, Part IV.* Worksheets are labeled with the same letter and number as the lessons with which they are used. In this book, they are in the following order:

N Worksheets

N1	N14	N24
N2	N16	N26
N3	N18	N32
N4	N19	N34
N6	N20	
N12	N22	

L Worksheets

L2	L7	L12
L4	L8	L14
L6	L11	

G Worksheets

G1	G5	G9
G2	G6	G10
G3	G7	G11
G4	G8	G12

W Worksheets

W3	W17

Name _____

Pair names for the same number. Two are paired for you.

$436 + \widehat{10}$

$268 + \widehat{20}$

$186 + \widehat{4}$

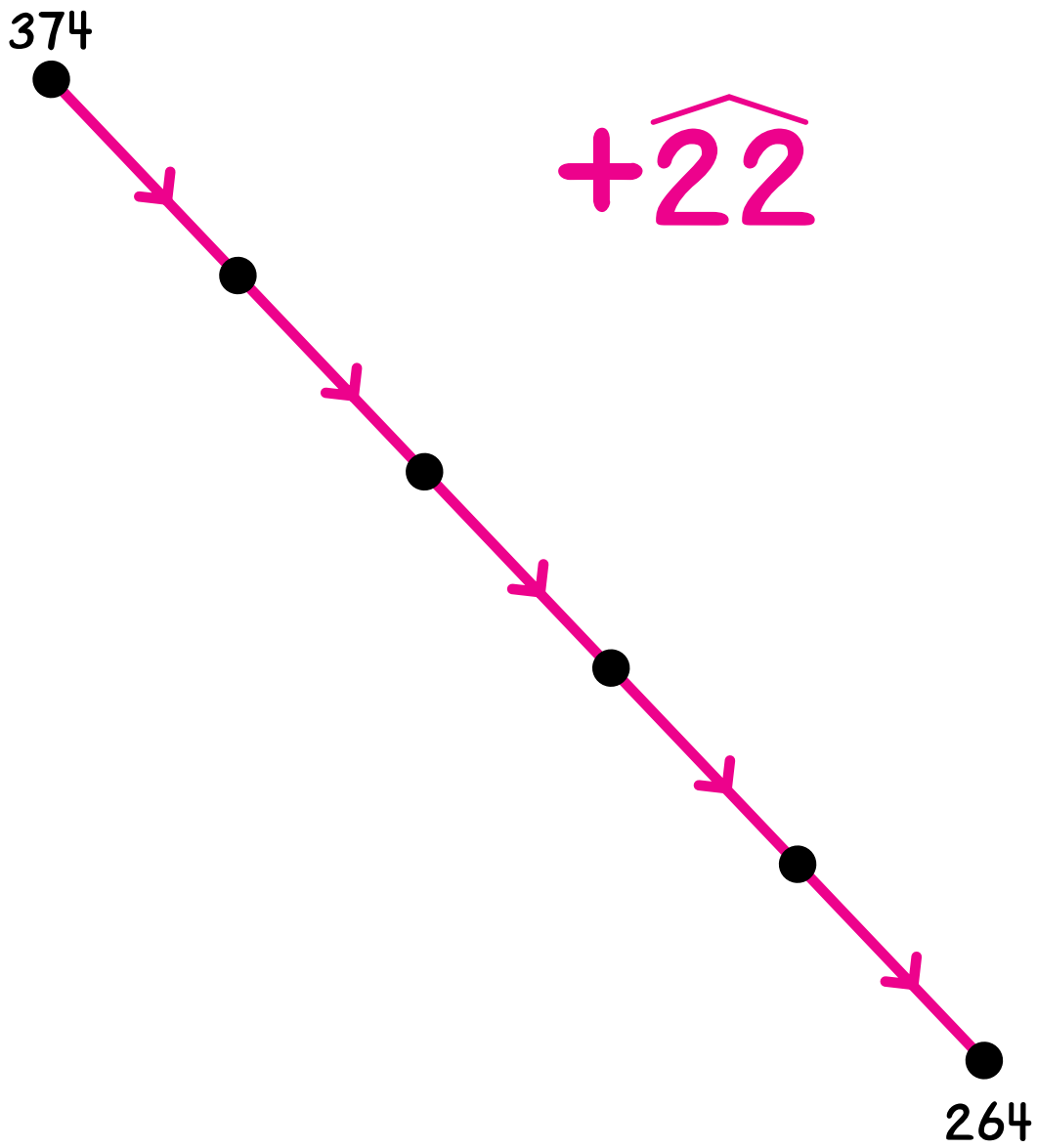$467 + \widehat{41}$

$348 + \widehat{100}$

$192 + \widehat{10}$

$294 + \widehat{80}$

$217 + \widehat{3}$

Label the dots.

374

$+\widehat{22}$

264

Name _____

Pair names for the same number.

$190 + \widehat{8}$

$474 + \widehat{48}$

$506 + \widehat{80}$

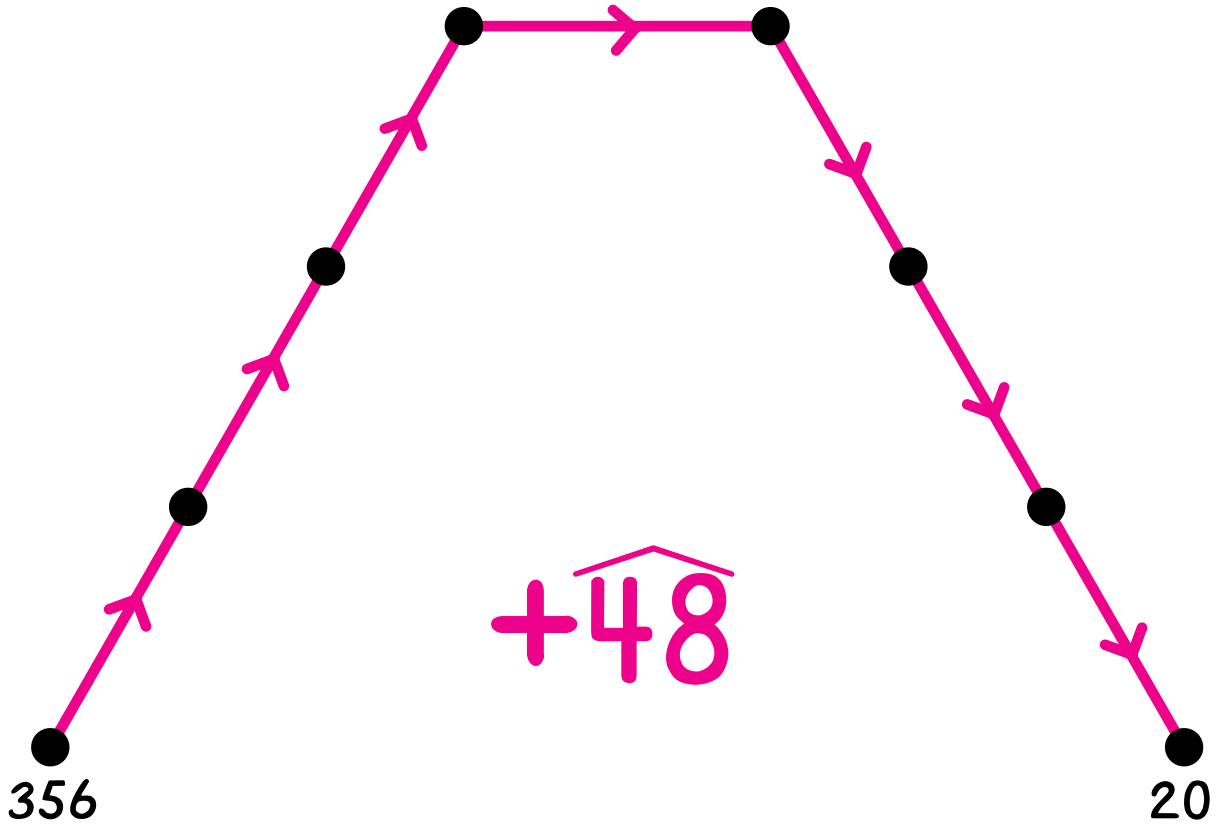$470 + \widehat{222}$

$111 + \widehat{82}$

$391 + \widehat{209}$

$1,050 + \widehat{802}$

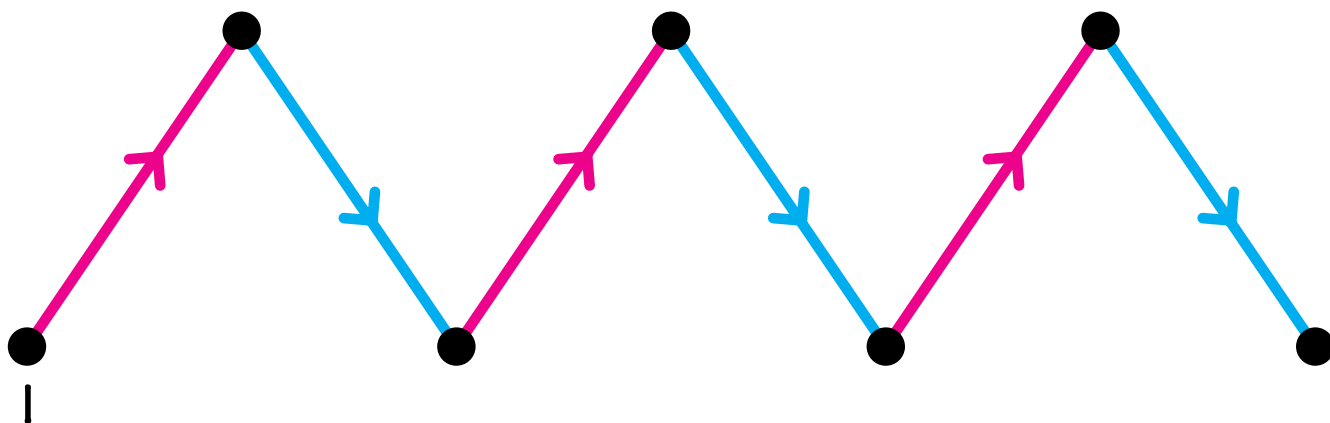$850 + \widehat{821}$

Name _____

Label the dots.

+48

356

20

Label the dots.
Draw all the possible 6x arrows in gray.

3× 　　 2× 　　 6×

1

You should have five gray arrows.

Name _____

Label the dots.
Draw all the possible 6x arrows in gray.

3✕

2✕

6✕

2
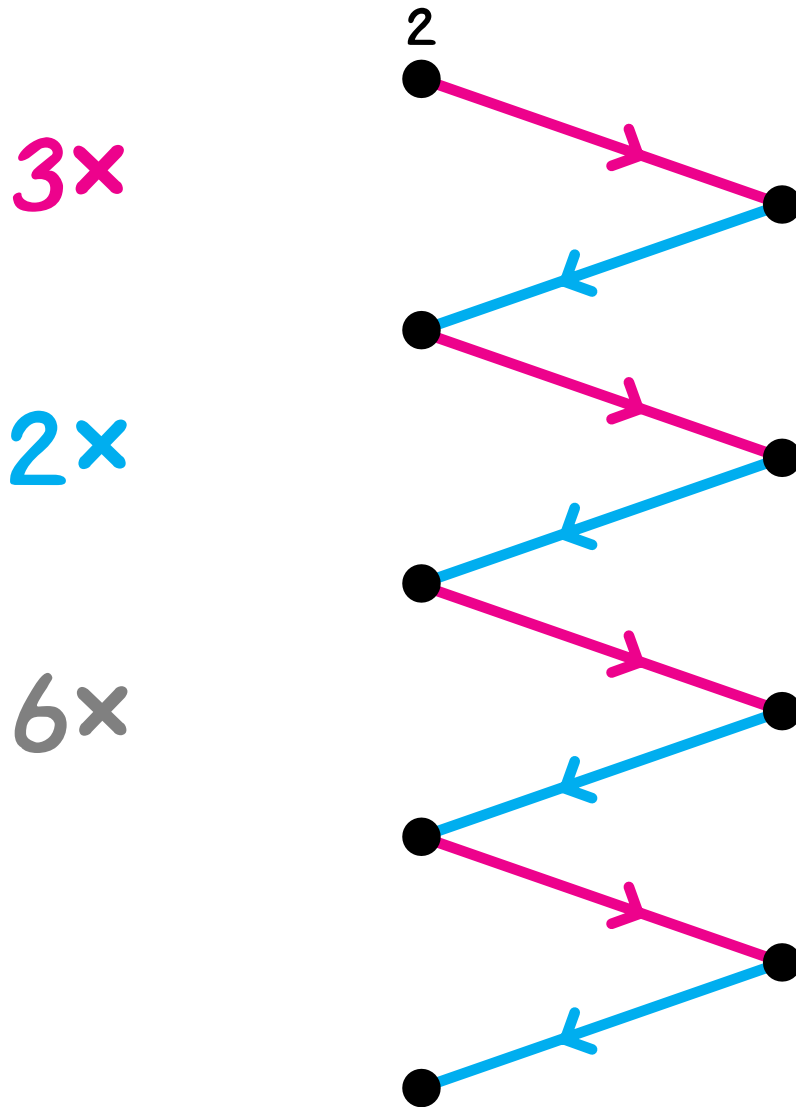
You should have seven gray arrows.

Name _____

Complete.

$8 - 5 = \boxed{}$

$9 - 6 = \boxed{}$

$10 - \boxed{} = 3$

$\boxed{} - 8 = 3$

$10 - 5 = \boxed{}$

$12 - 7 = \boxed{}$

$14 - \boxed{} = 5$

$\boxed{} - 11 = 5$

$7 - 8 = \boxed{}$

$8 - 8 = \boxed{}$

$\boxed{} - 8 = 1$

$10 - \boxed{} = 2$

$20 - 10 = \boxed{}$

$30 - \boxed{} = 20$

$\boxed{} - 10 = 30$

$50 - \boxed{} = 40$

Name _____

Complete.

$$
\begin{array}{r} 18 \\ -10 \\ \hline \end{array}
\qquad
\begin{array}{r} 19 \\ -11 \\ \hline \end{array}
\qquad
\begin{array}{r} 20 \\ -\square \\ \hline 8 \end{array}
\qquad
\begin{array}{r} \square \\ -13 \\ \hline 8 \end{array}
$$

$$
\begin{array}{r} 42 \\ -21 \\ \hline \end{array}
\qquad
\begin{array}{r} 41 \\ -\square \\ \hline 20 \end{array}
\qquad
\begin{array}{r} 40 \\ -21 \\ \hline \end{array}
\qquad
\begin{array}{r} \square \\ -21 \\ \hline 18 \end{array}
$$

$$
\begin{array}{r} 14 \\ -7 \\ \hline \end{array}
\qquad
\begin{array}{r} 16 \\ -\square \\ \hline 7 \end{array}
\qquad
\begin{array}{r} \square \\ -10 \\ \hline 7 \end{array}
\qquad
\begin{array}{r} 20 \\ -13 \\ \hline \end{array}
$$

$$
\begin{array}{r} 13 \\ -8 \\ \hline \end{array}
\qquad
\begin{array}{r} 23 \\ -18 \\ \hline \end{array}
\qquad
\begin{array}{r} 33 \\ -28 \\ \hline \end{array}
\qquad
\begin{array}{r} 43 \\ -38 \\ \hline \end{array}
$$

Name _____

Pair names for the same number.

36 – 24	73 – 50
72 – 49	75 – 34
47 – 20	100 – 57
99 – 56	40 – 28
70 – 29	44 – 17

Name _____

Pair names for the same number.

86 − 35	85 − 49
71 − 18	80 − 46
100 − 66	90 − 39
95 − 66	91 − 38
81 − 45	88 − 59

Carmen buys two different games and spends exactly $2.
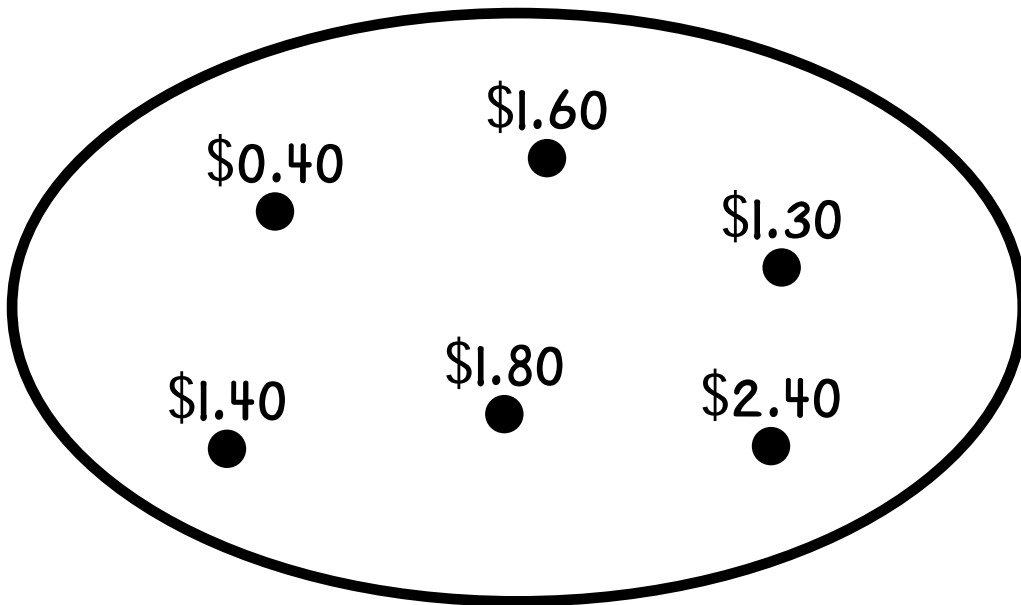Draw one string around the prices of these two games.

$1.50
●

$1.30
●

$0.75
●

$0.50
●
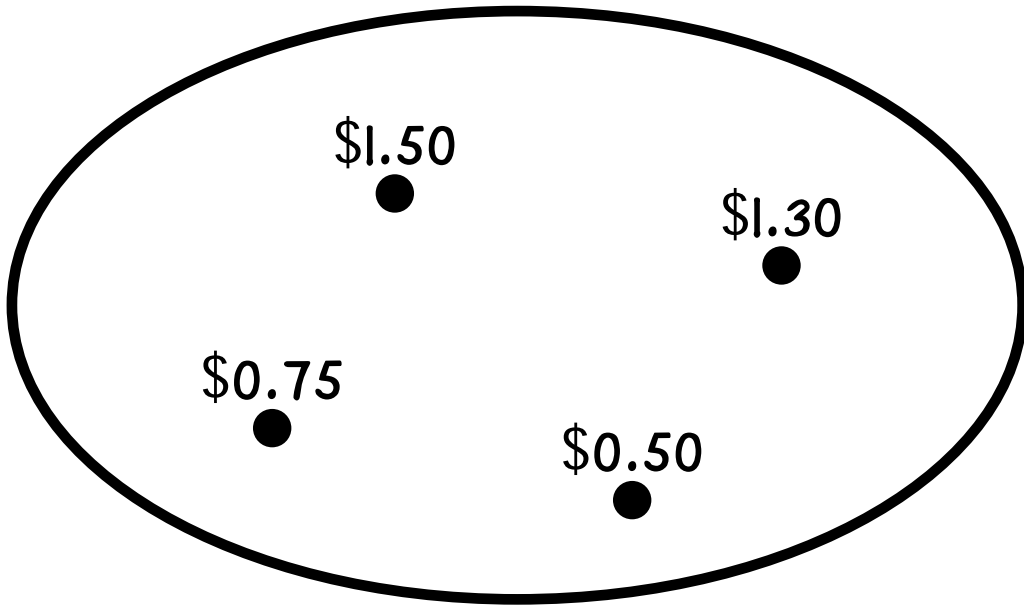
Anthony buys two different books and spends exactly $3.
Draw one string around the prices of these two books.

$3.30
●

$1.80
●

$1.50
●

$1.20
●

$2.00
●
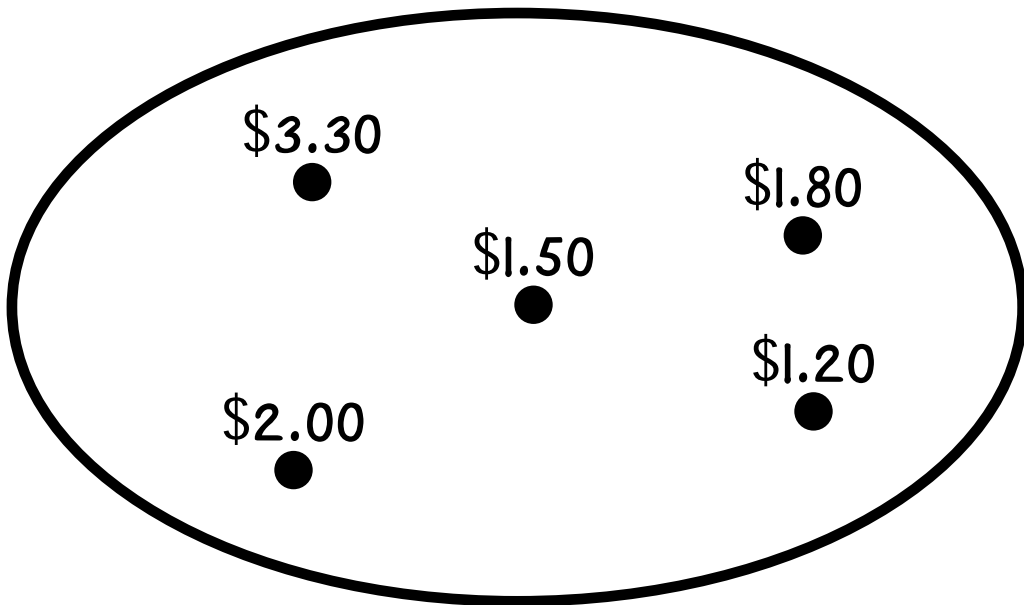
William buys two different magic tricks and spends exactly $3. Draw one string around the prices of these two magic tricks.

$1.60
$0.40
$1.30
$1.40
$1.80
$2.40

_____

Sharon buys two different paint sets and spends exactly $5. Draw one string around the prices of these two paint sets.

$2.30
$1.70
$2.50
$1.60
$3.30
$3.45
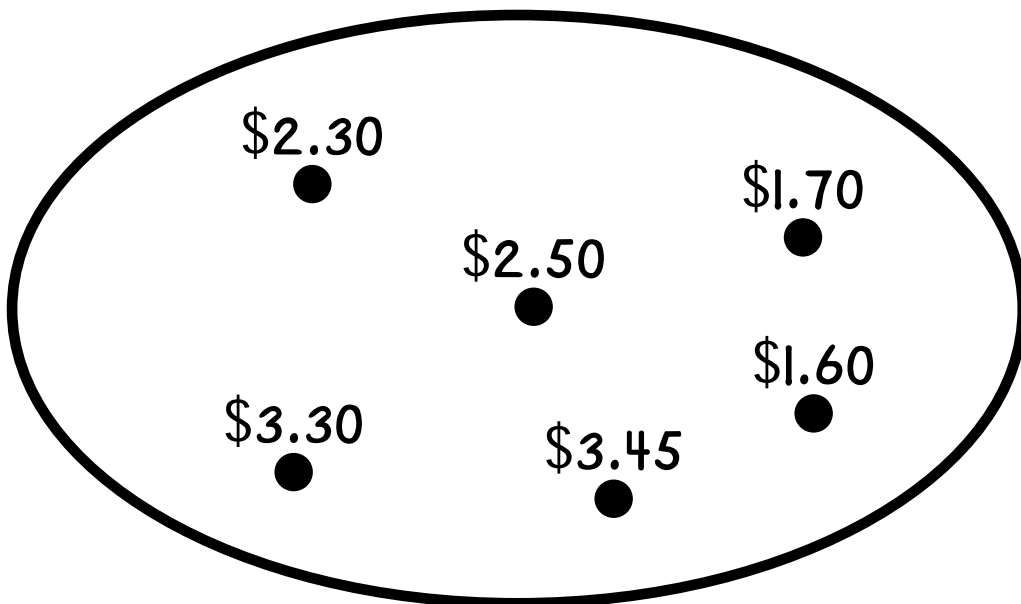
Elizabeth buys two different scarfs and spends exactly $4.
Draw one string around the prices of these two scarfs.

$1.35

$1.45

$2.75

$1.55 $2.65 $2.25
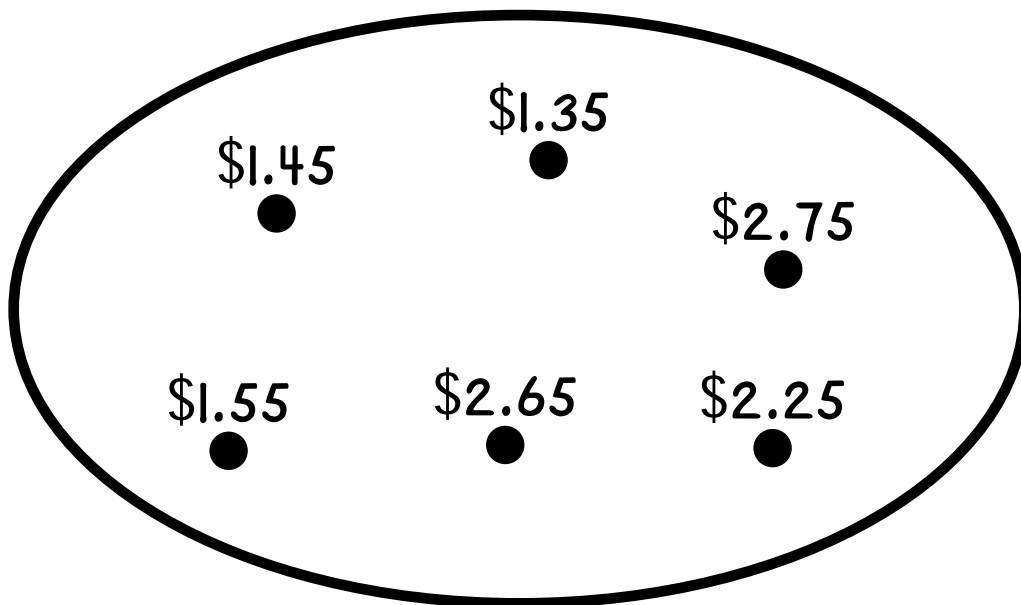
Scott buys two different hats and spends exactly $10.
Draw one string around the prices of these two hats.

$4.05

$5.85

$4.85

$5.75

$4.95 $4.15
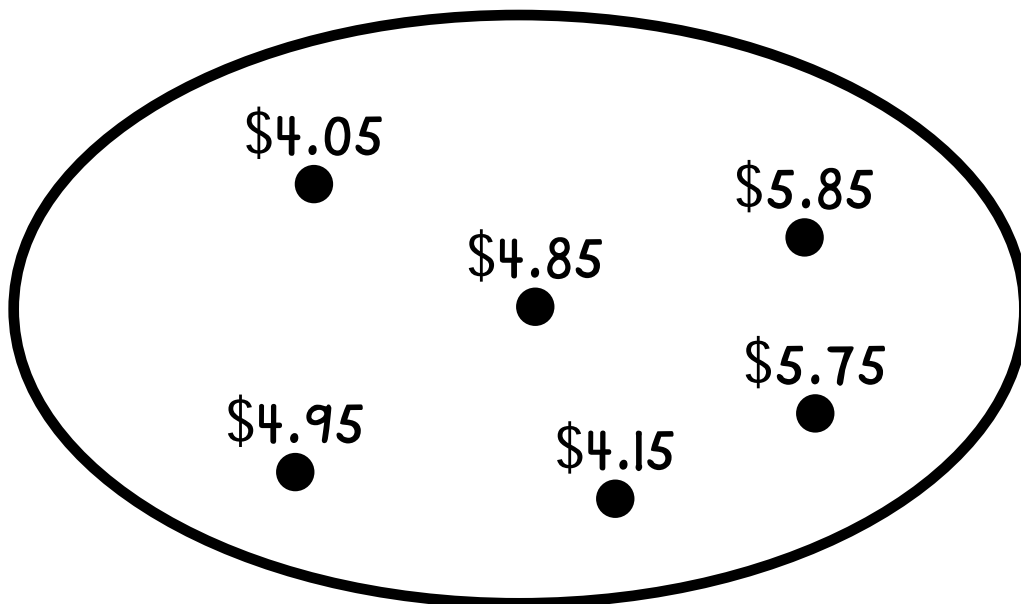
Pat buys three different whistles and spends exactly $2.
Draw one string around the prices of these three whistles.

$0.75

$0.60

$0.70

$0.50 $0.85 $0.80
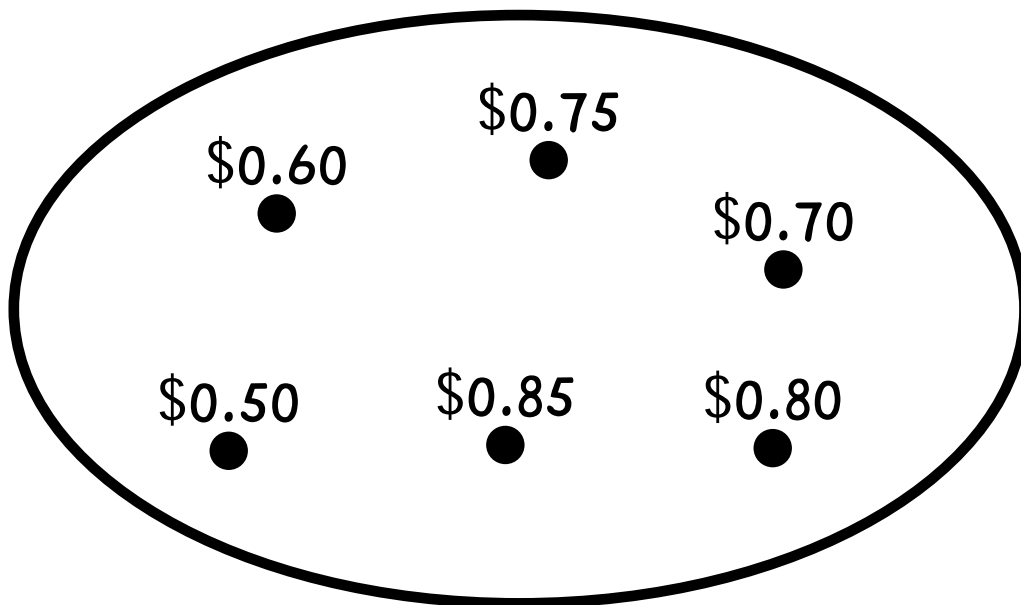
Elliot buys three different records and spends exactly $10.
Draw one string around the prices of these three records.

$2.50

$3.40

$2.30

$4.60

$4.50

$3.20
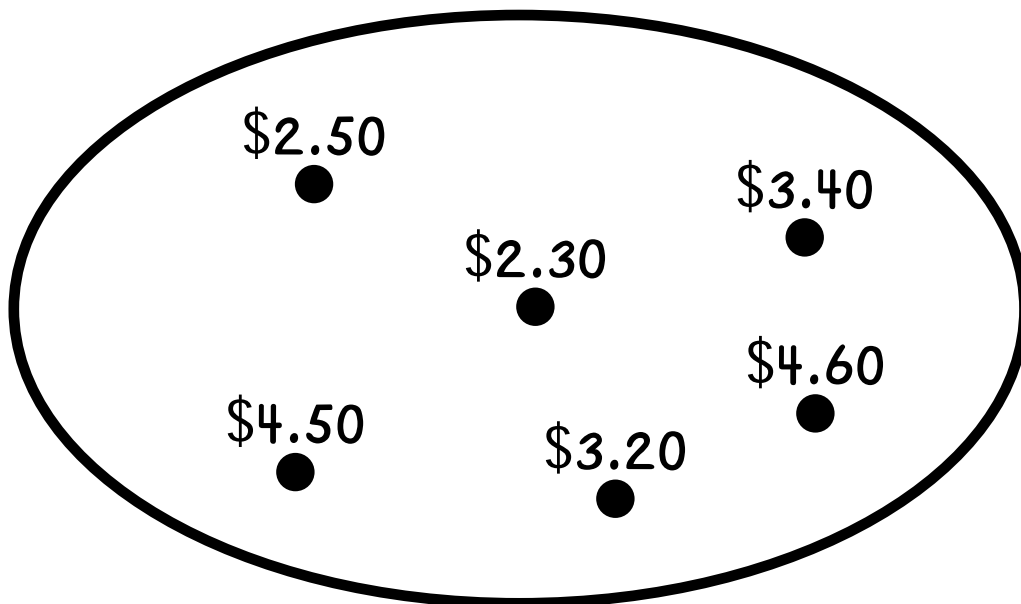
Name _____

Complete.

$\frac{1}{2}$ × 10 = ___

$\frac{1}{2}$ × 14 = ___

$\frac{1}{2}$ × 12 = ___

$\frac{1}{2}$ × 18 = ___

$\frac{1}{2}$ × 20 = ___

$\frac{1}{2}$ × 26 = ___

$\frac{1}{2}$ × 40 = ___

$\frac{1}{2}$ × 48 = ___

$\frac{1}{2}$ × 50 = ___

$\frac{1}{2}$ × 52 = ___

$\frac{1}{2}$ × 30 = ___

$\frac{1}{2}$ × 36 = ___

$\frac{1}{2}$ × 100 = ___

$\frac{1}{2}$ × 120 = ___

$\frac{1}{2}$ × 124 = ___

$\frac{1}{2}$ × 130 = ___

Name _____

Complete.

$\frac{1}{3} \times 30 =$ ___ $\frac{1}{3} \times 45 =$ ___

$\frac{1}{3} \times 36 =$ ___ $\frac{1}{3} \times 105 =$ ___

$\frac{1}{3} \times 90 =$ ___ $\frac{1}{3} \times 120 =$ ___

$\frac{1}{3} \times 99 =$ ___ $\frac{1}{3} \times 117 =$ ___

$\frac{1}{2} \times 5 = 2.5$ $\frac{1}{2} \times 6.40 =$ ___

$\frac{1}{2} \times 25 =$ ___ $\frac{1}{2} \times 3.00 =$ ___

$\frac{1}{2} \times 45 =$ ___ $\frac{1}{2} \times 0.52 =$ ___

$\frac{1}{2} \times 51 =$ ___ $\frac{1}{2} \times 3.52 =$ ___

Name _____

Complete.

$\frac{1}{2} \times 20 =$ _____ $60 \div 2 =$ _____

$\frac{1}{2} \times 24 =$ _____ $68 \div 2 =$ _____

$\frac{1}{2} \times 40 =$ _____ $80 \div 2 =$ _____

$\frac{1}{2} \times 46 =$ _____ $82 \div 2 =$ _____

$\frac{1}{2} \times 50 =$ _____ $30 \div 2 =$ _____

$\frac{1}{2} \times 52 =$ _____ $32 \div 2 =$ _____

$\frac{1}{2} \times 54 =$ _____ $34 \div 2 =$ _____

$\frac{1}{2} \times 56 =$ _____ $36 \div 2 =$ _____

Name _____

Share 234 marbles between
Marty and Mandy.

Marty   Mandy
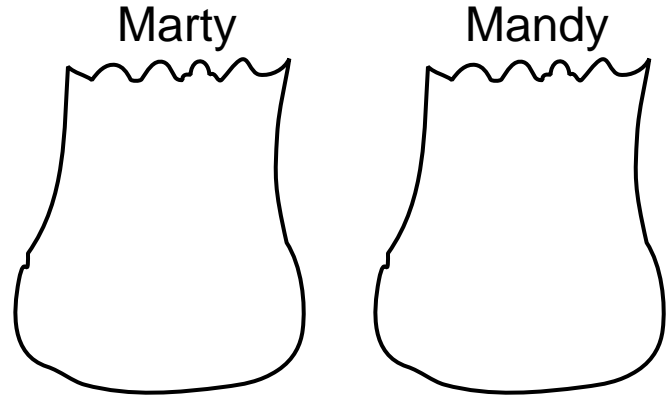
Complete.

$$234 \div 2 = \underline{} \qquad \frac{1}{2} \times 234 = \underline{}$$

Share 346 cards between
Cory and Carla.

Cory   Carla
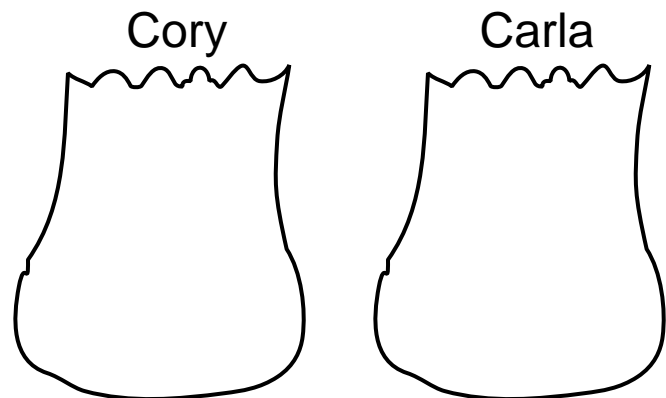
Complete.

$$346 \div 2 = \underline{} \qquad \frac{1}{2} \times 346 = \underline{}$$

Name _____

Complete.

$4 \div 2 =$ ___ | $\frac{1}{2} \times 600 =$ ___

$5 \div 2 =$ ___ | $\frac{1}{2} \times 640 =$ ___

$6 \div 2 =$ ___ | $\frac{1}{2} \times 642 =$ ___

$7 \div 2 =$ ___ | $\frac{1}{2} \times 650 =$ ___

$100 \div 2 =$ ___ | $\frac{1}{2} \times 500 =$ ___

$30 \div 2 =$ ___ | $\frac{1}{2} \times 90 =$ ___

$8 \div 2 =$ ___ | $\frac{1}{2} \times 6 =$ ___

$138 \div 2 =$ ___ | $\frac{1}{2} \times 596 =$ ___

Name _____

Label the dots.

$\dfrac{1}{2}$ **✗**

800

832

848

840

Name _____

Build an arrow road between 5 and 16 using 2x, +1, and −1 arrows. Try to use as few arrows as possible.

2×　　**+1**　　**−1**

16
●

●
5

Name _____

Build an arrow road between these pairs of numbers using
2x, +1, and −1 arrows. Try to use as few arrows as possible.

2×   **+|**   **−|**

9
●

●
31

50
●

●
11

Build an arrow road between these pairs of numbers using
2x, +1, and −1 arrows. Try to use as few arrows as possible.

2×   **+1**   **−1**

100
●

●
20

7
●

●
63

Build an arrow road between these pairs of numbers using
2x, +1, and −1 arrows. Try to use as few arrows as possible.

2×   **+|**   **−|**

13
●

●
88

99
●

●
30

Name _____

Build an arrow road between these pairs of numbers using 10x, +1, and −1 arrows. Try to use as few arrows as possible.

10× **+1** **−1**

2
●

●
53

_____

3
●

●
24

Name _____

Build an arrow road between these pairs of numbers using 10x, +1, and −1 arrows. Try to use as few arrows as possible.

10×   +| −|

8
●

●
115

14
●

●
108

Build an arrow road between these pairs of numbers using
10x, +1, and −1 arrows. Try to use as few arrows as possible.

10×   **+1**   **−1**

507
●

●
5

───

570
●

●
5

Name _____

Build an arrow road between these pairs of numbers using
10x, +1, and −1 arrows. Try to use as few arrows as possible.

10×   **+1**   **−1**

989
●

● 7

_____

12
●

● 1,084

Name _____

Share 26 cards fairly between Dick and Nina.

For Dick	For Nina

Write a number sentence about this sharing.

_____

Share 27 pencils fairly among Andrea, Sheila, and Rob.

For Andrea	For Sheila	For Rob

Write a number sentence about this sharing.

Share 34 pennies fairly between Pat and Gary.

For Pat	For Gary

Write a number sentence about this sharing.

Share 54 dimes fairly among Bill, Stanley, and Lisa.

For Bill	For Stanley	For Lisa

Write a number sentence about this sharing.

Name _____

Share 114 pictures fairly between Arthur and Maria.

For Arthur	For Maria

Write a number sentence about this sharing.

Share 81 candies fairly among Nora, Brad, and Mark.

For Nora	For Brad	For Mark

Write a number sentence about this sharing.

Share 186 stamps fairly between Andy and Pam.

For Andy	For Pam

Write a number sentence about this sharing.

Share 129 marbles fairly among John, Ann, and Cathy.

For John	For Ann	For Cathy

Write a number sentence about this sharing.

Name _____

Share 483 stickers fairly among Paula, Stacey, and Joy.

For Paula	For Stacey	For Joy

Write a number sentence about this sharing.

Share 732 cards among Wally, James, Amy, and Jade.

For Wally	For James	For Amy	For Jade

Write a number sentence about this sharing.

Name _____

Share 819 seeds fairly among Mike, Ellen, and Eric.

For Mike	For Ellen	For Eric

Write a number sentence about this sharing.

Share 1,935 books among Sandra, Leo, Christy, Sharone, and Maia.

For Sandra	For Leo	For Christy	For Sharone	For Maia

Write a number sentence about this sharing.
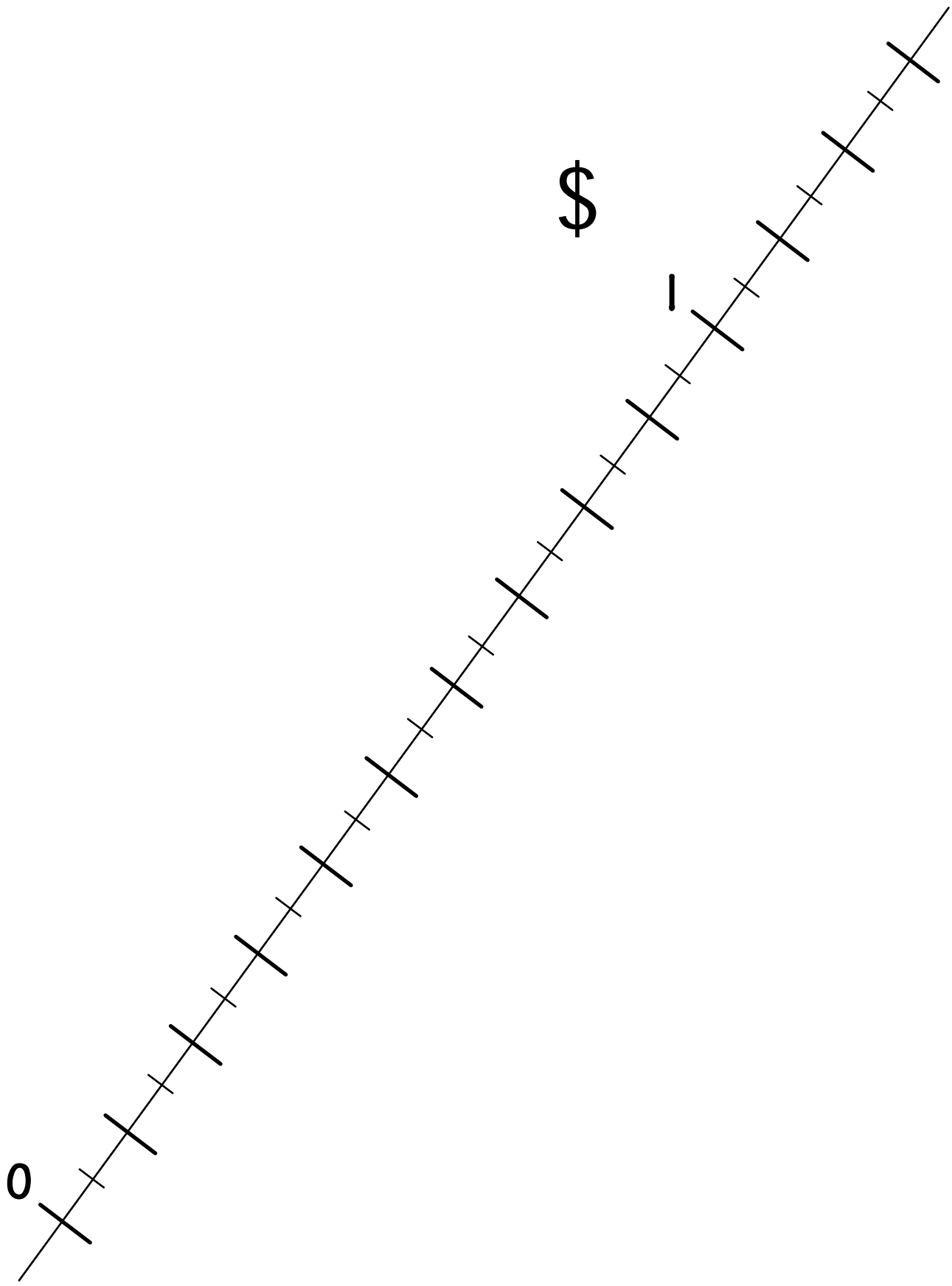
Name _____

$

I

0

Name _____

Label the dots on this number line.

$

I

0

Name _____

Label the dots on this number line.

$

I

0
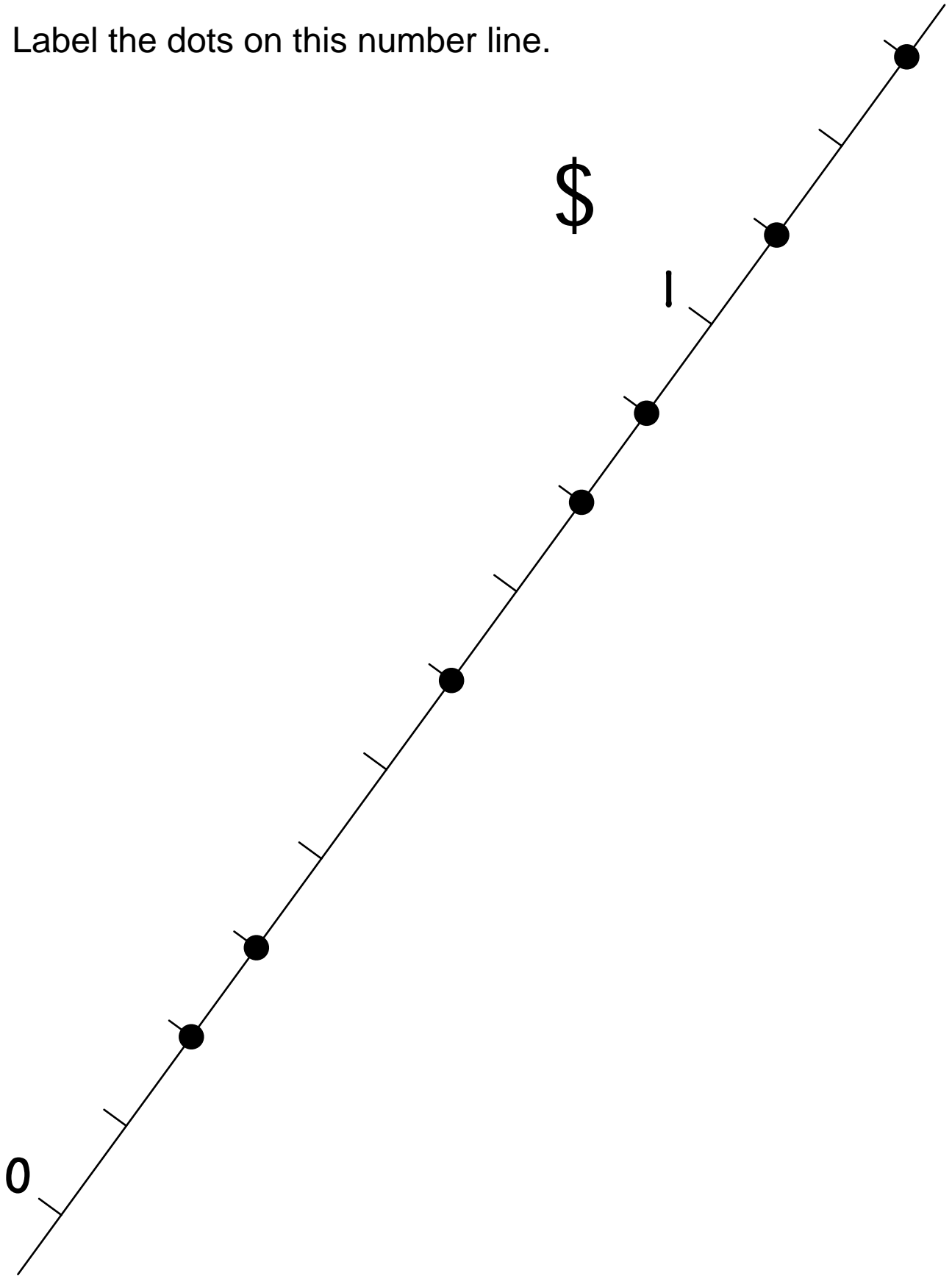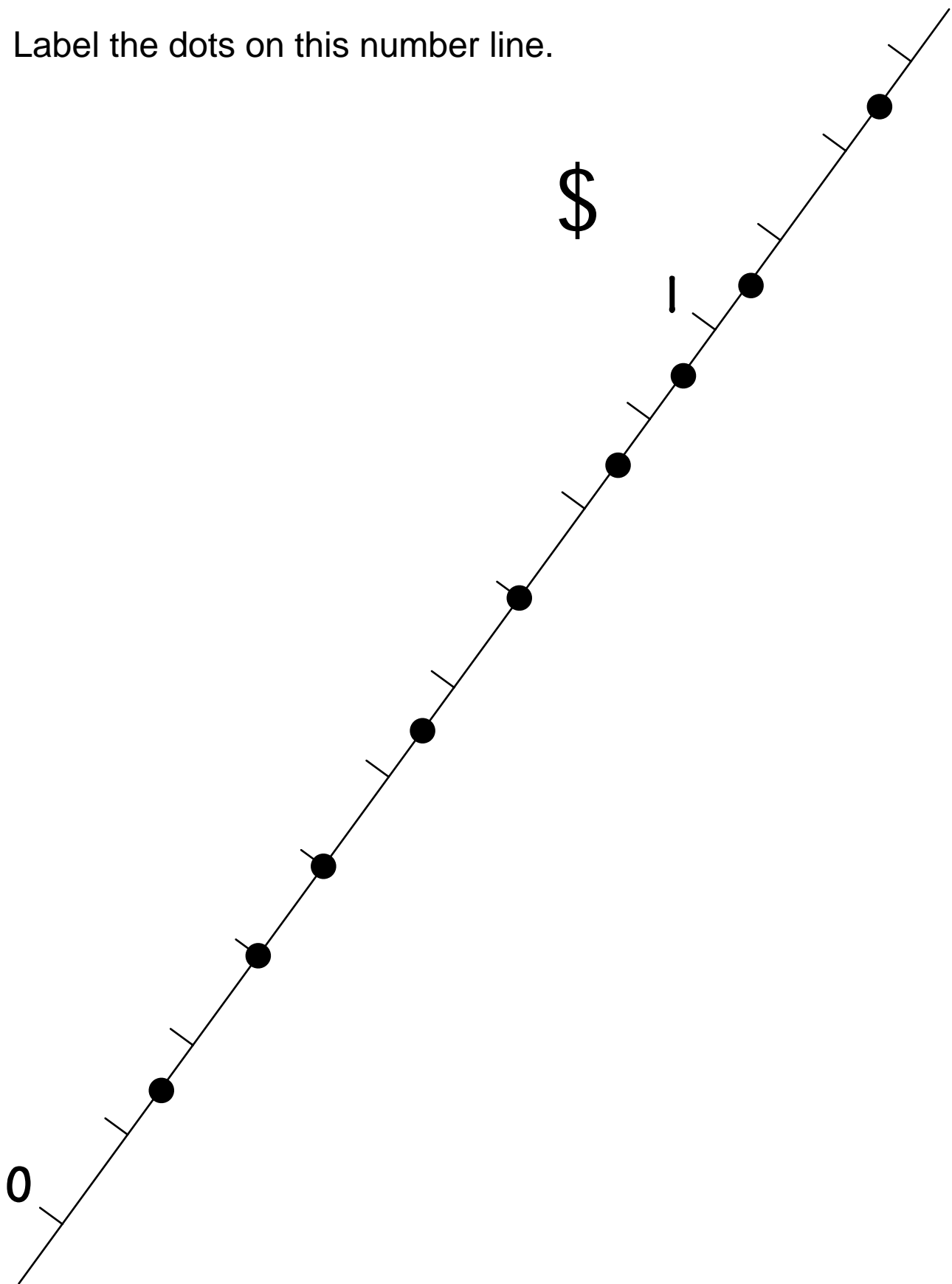
Name _____

Label the dots and complete the multiplication facts.

2×   8×

6

8 × 6 = _____

4

8 × 4 = _____

11

8 × 11 = _____

14

8 × 14 = _____
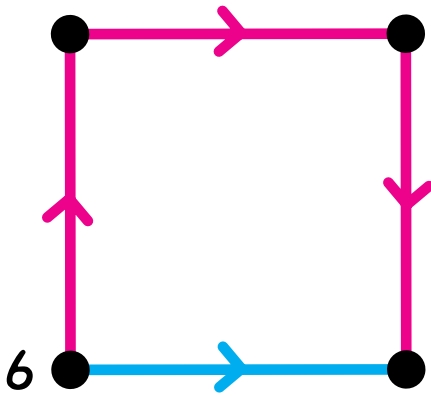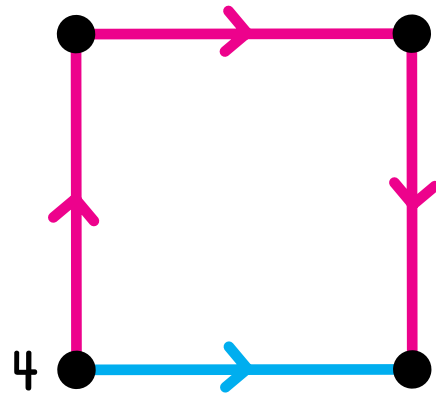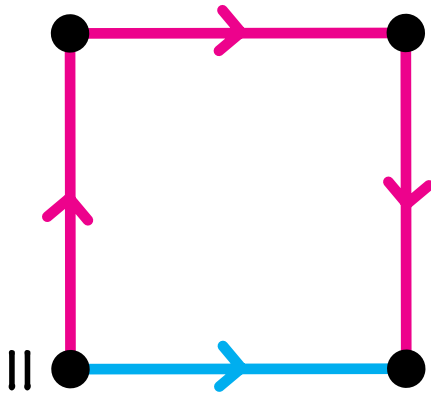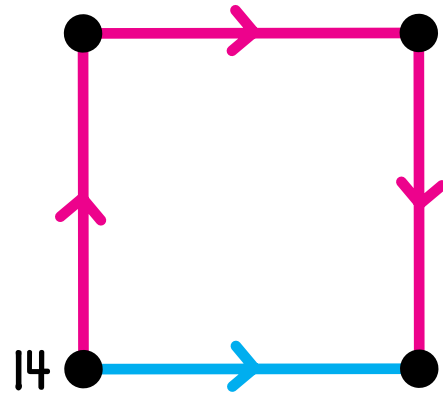
Name _____

Complete this table.
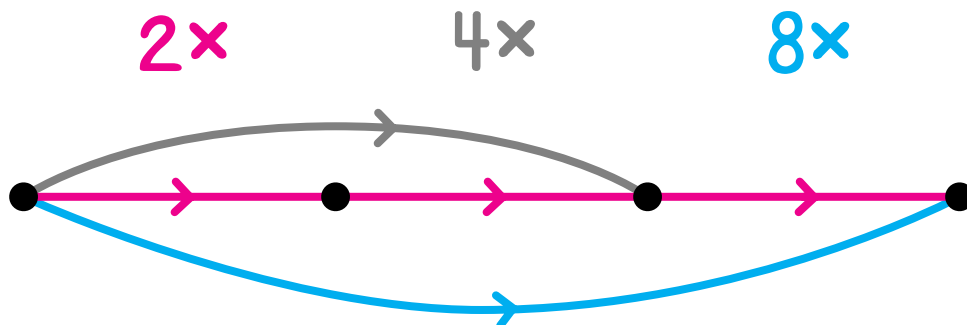
Starting Number	2×	4×	8×
9			
17			
23			
38			
47			

Name _____

Label the dots.

$2\times$ $+10$

103

231

154
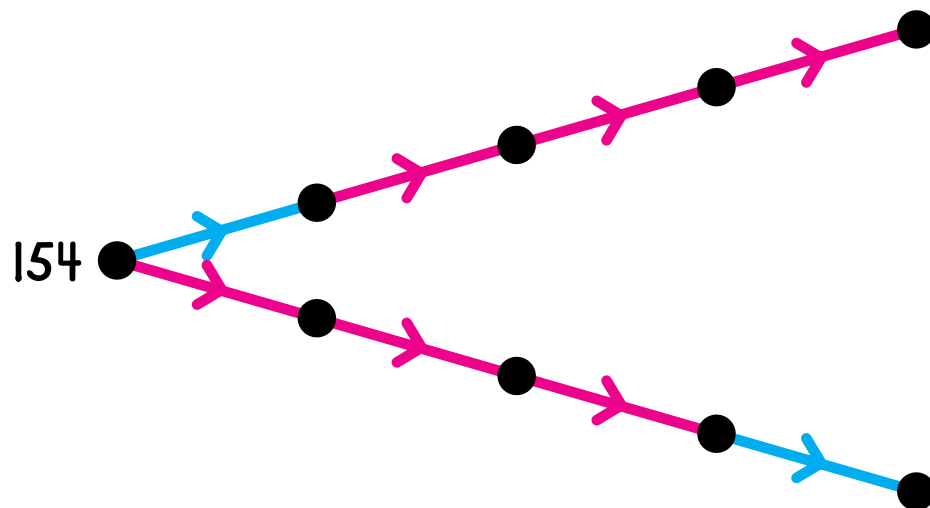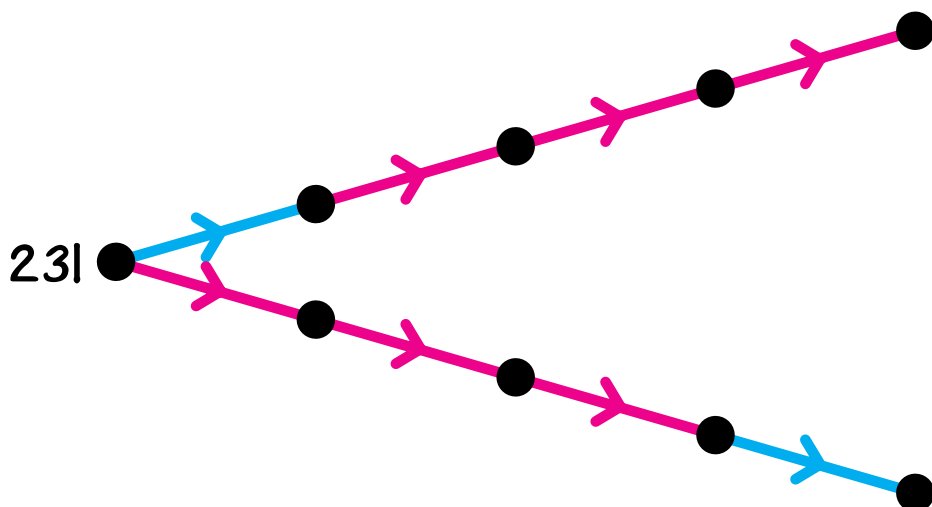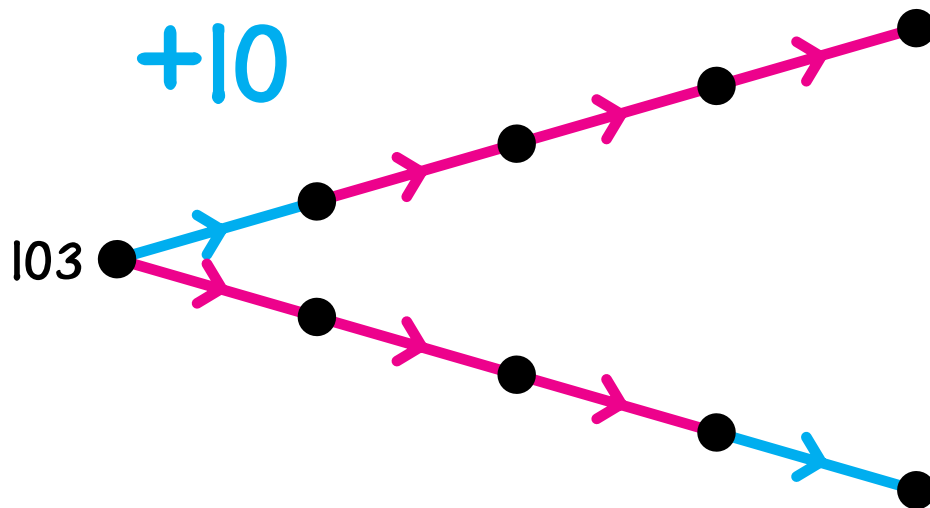
Name _____

Label the dots.
Draw all the possible 8x arrows in blue.
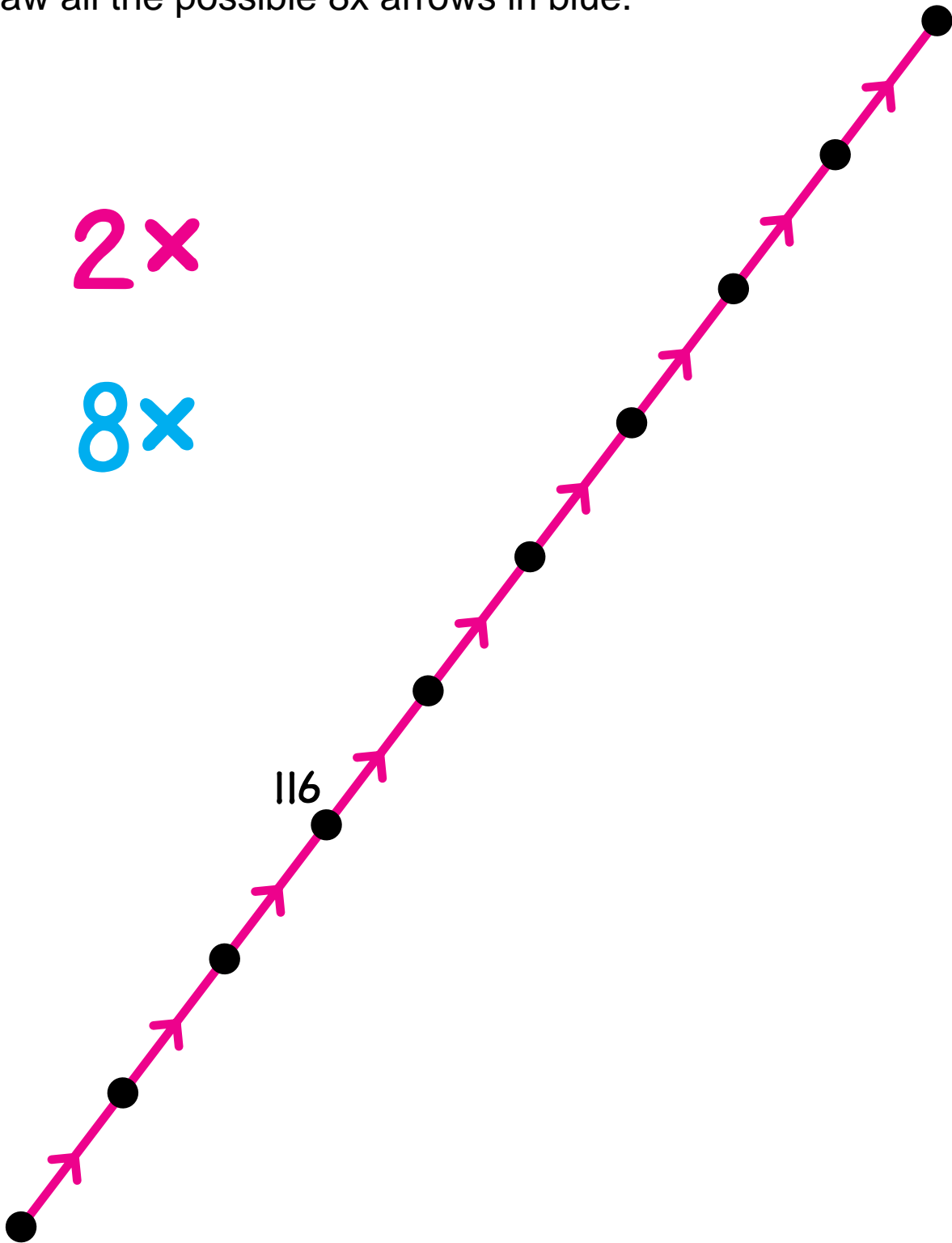
2×

8×

116

Name _____

Label the dots.

●————>————●————>————●————>————●————>————● 94

−37　　　+46

●————>————●————>————●————>————●————>————● 18

Name _____

Label the dots.

×2

−69

• 56

Name _____

Label the dots.

38

−48

+25

×3

×2
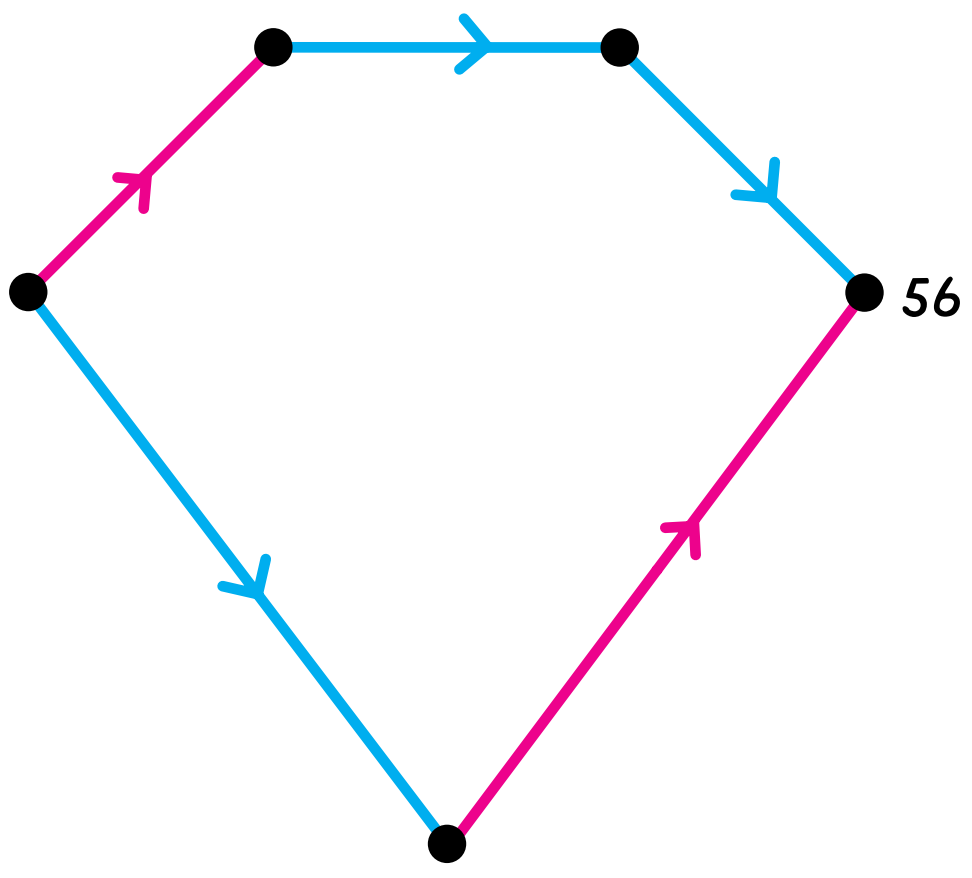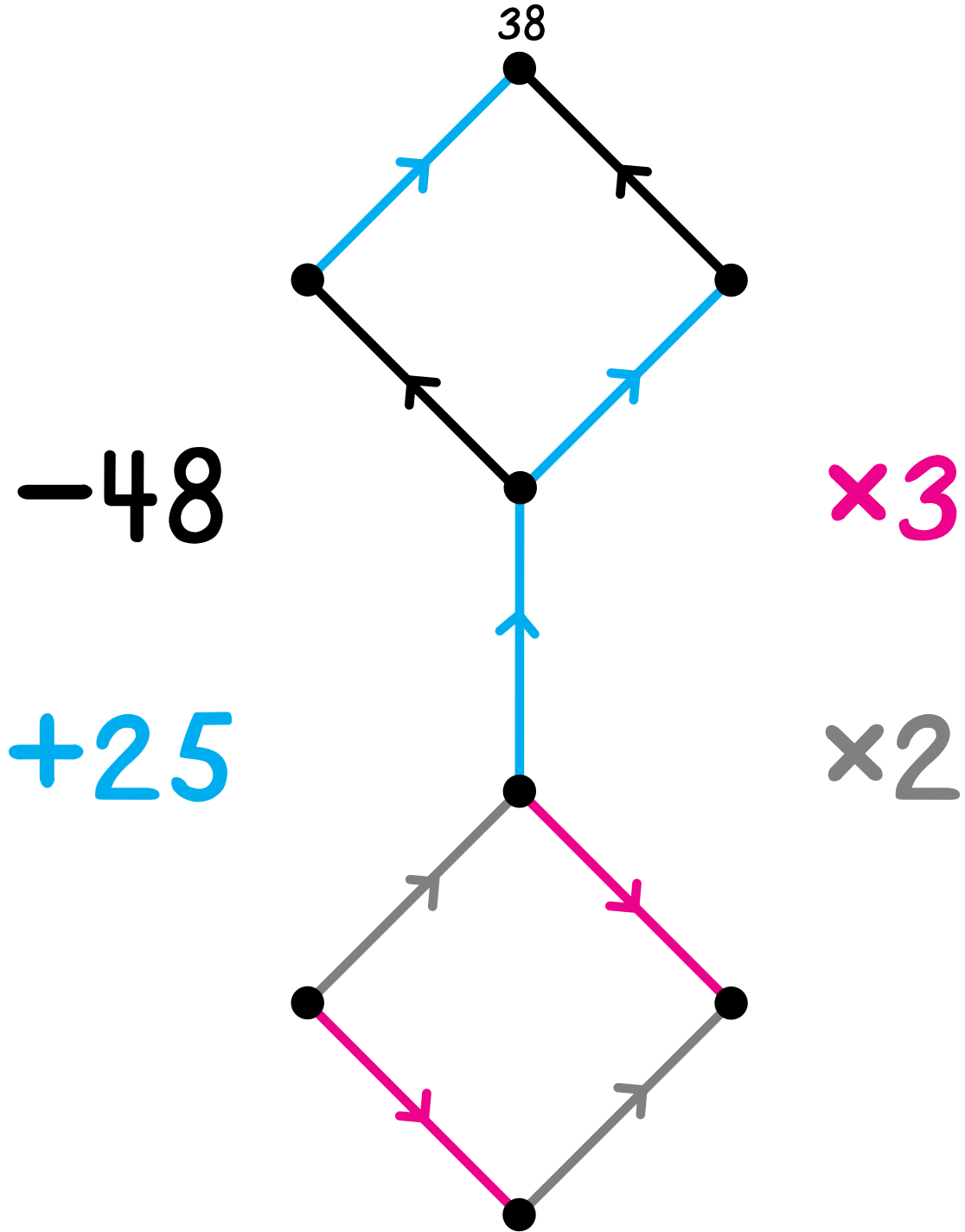
Name _____

Label the dots.
Draw seven missing x6 arrows in gray.

×3   ×6   ×2

486

Name _____

5×

$\frac{1}{2}$**×**

10×
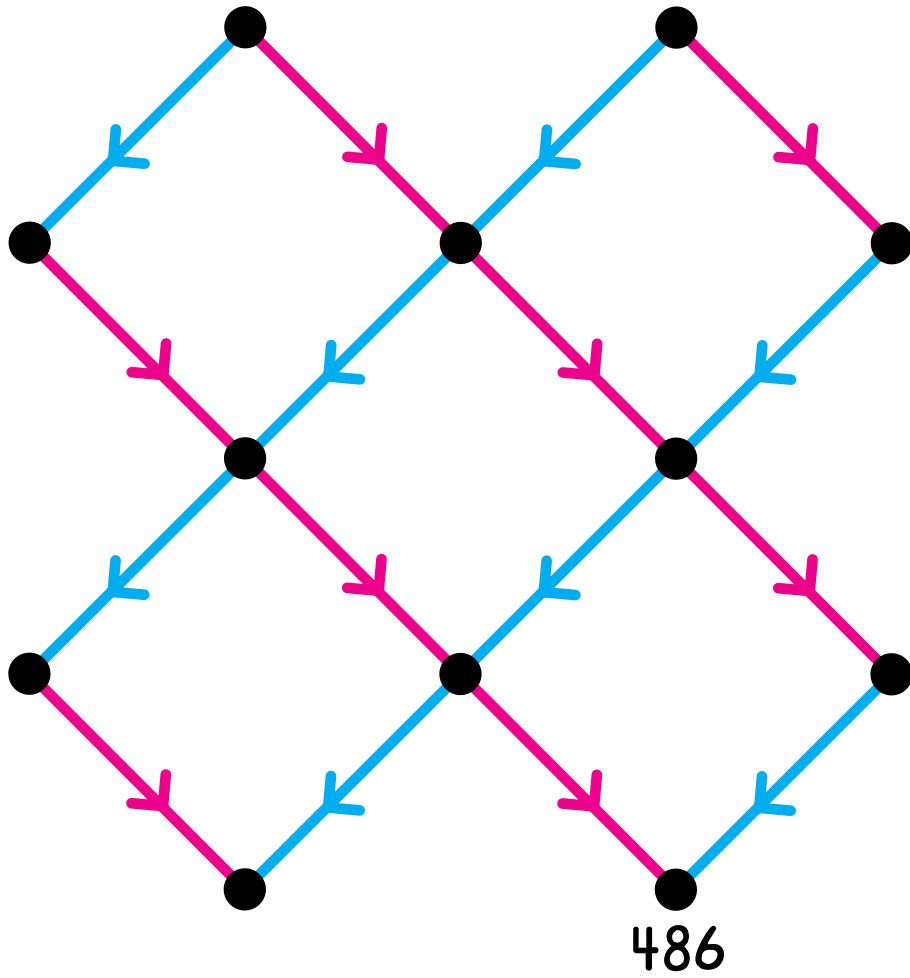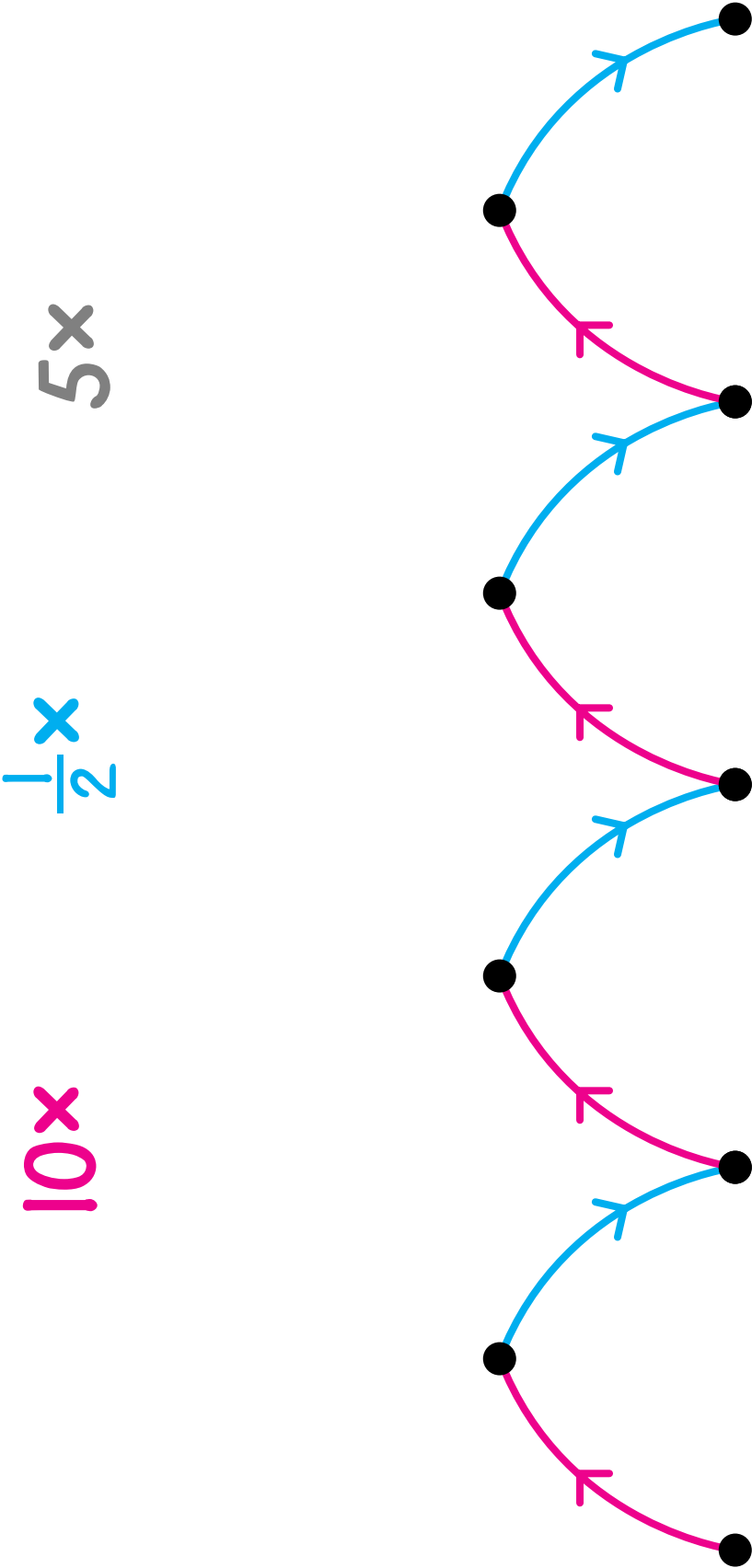
Name _____

Label the dots.
Draw all the possible 5x arrows in gray.

10×

$\frac{1}{2}$×

5×

16
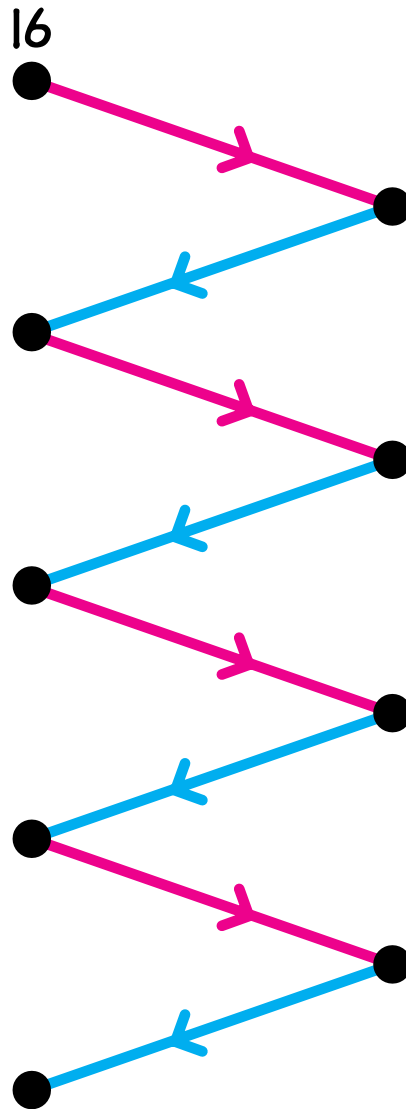
You should find seven 5x arrows.

Name _____

Complete this table.

10× $\frac{1}{2}$×

5×
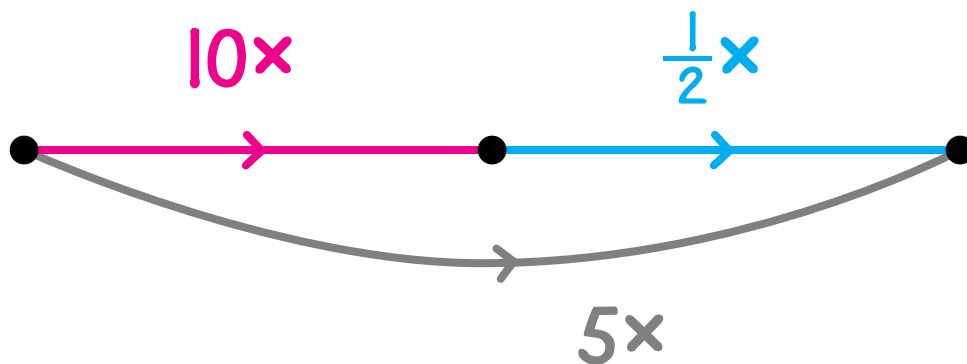
Starting Number	10×	5×
25		
82		
41		
63		
85		
94		

Draw all the possible 10x, 5x, and $\frac{1}{2}$x arrows.

10×   5× $\frac{1}{2}$×

3
●

15
●

30
●

150
●

9,375
●

75
●

18,750
●

3,750
●

750
●

●
1,875

●
375

Name _____

Build an arrow road between each pair of numbers. Try to use less than ten arrows in each road.

10×   +1   −1

6
●

●
73
_____

5
●

●
36

Name _____

Build an arrow road between each pair of numbers. Use less than ten arrows in each road.

10×   **+1**   **−1**

103
●

●
9

_____

108
●

●
12

Name _____

Build an arrow road between each pair of numbers. Use less than ten arrows in each road.

10× **+1** **−1**

610
●

●
3

_____

670
●

●
4

Name _____

Build an arrow road between each pair of numbers. Use less than ten arrows in each road.

$10\times$ $+1$ -1

11
●

●
1,021

_____

13
●

●
989

Name _____

Label the dots in the pictures to help solve these problems.

Put cookies in packages of 24. How many packages will 200 cookies fill? _____ How many cookies left over?_____

200

−24
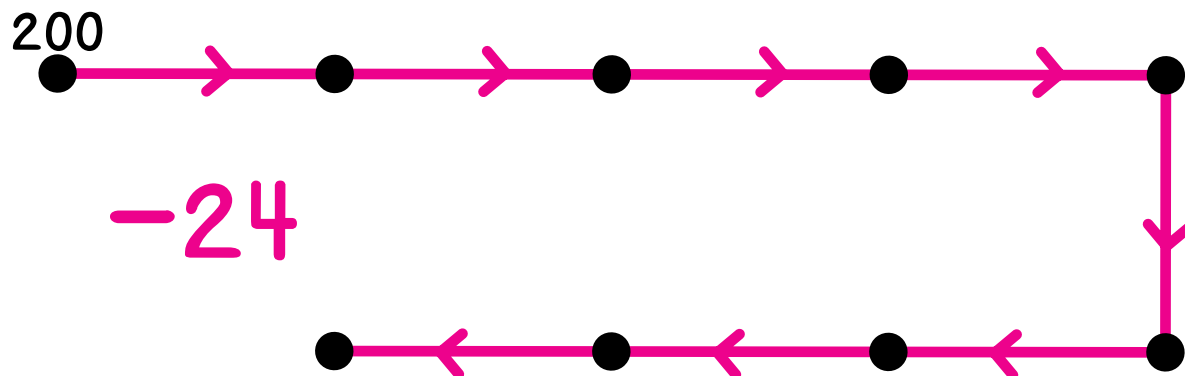
Complete.

$$24\overline{)200}$$

_____

Put erasers in boxes of 15. How many boxes will 350 erasers fill? _____ How many erasers left over? _____

350

−150   −15
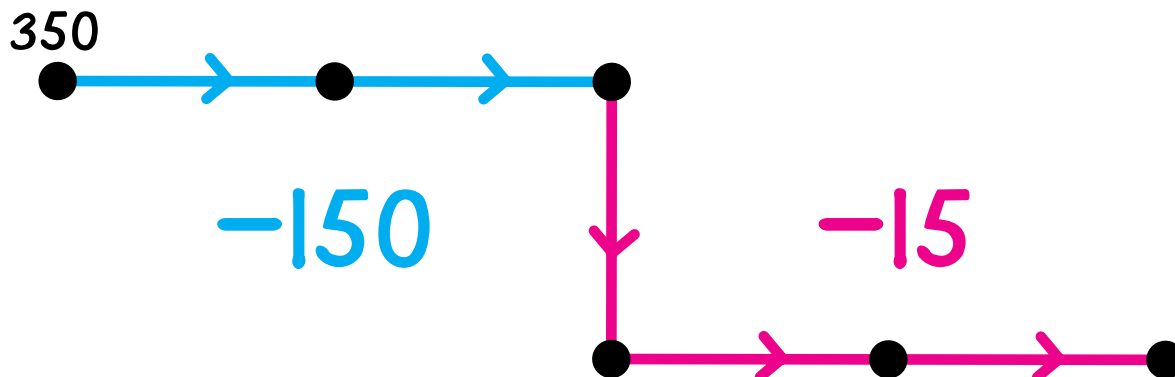
Complete.

$$15\overline{)350}$$

Name _____

Draw pictures to show how you solve these problems.

Put bottles in cartons of 16.
How many cartons will 350 bottles fill? _____
How many bottles left over? _____

Complete.   16)‾350‾

Put cards in packages of 36.
How many packages will 500 cards fill? _____
How many cards left over? _____

Complete.   36)‾500‾

Name _____

Build a road between each pair of numbers.
Try to use less than ten cords to build each road.

2✗ or $\frac{1}{2}$**✗**   **+|** or **−|**

7
●

●
30

6
●

●
50

Build a road between each pair of numbers.
Use less than ten cords to build each road.

$2×$ or $\frac{1}{2}×$ $+|$ or $-|$

40
●

●
14

20
●

●
30

Name _____

Build a road between each pair of numbers.
Use as few cords as possible to build each road.

$$2\times \quad \text{or} \quad \frac{1}{2}\times$$

$$+| \quad \text{or} \quad -|$$

48
●

●
60

_____

100
●

●
88

Build a road between each pair of numbers.
Use as few cords as possible to build each road.

2× or $\frac{1}{2}$×   +| or −|

44
●

●
130

501
●

●
55

Name _____

Match names for the same number.
One is done for you.

$(2 \times 5) + 10$ 25

$(2 \times 10) + 5$ 70

$(5 \times 10) + 2$ 20

$2 \times (5 + 10)$ 60

$5 \times (10 + 2)$ 30

$10 \times (5 + 2)$ 52

Name _____

Elf is a secret number.

Clue 1

A name for Elf can be written using all these symbols, each symbol exactly once.

$$(\quad + \quad \times \quad)$$

$$2 \qquad 1 \qquad 4$$

Clue 2

A name for Elf can be written using all these symbols, each symbol exactly once.

$$2 \qquad (\qquad) \qquad 6$$

$$+ \qquad 3 \qquad \times$$

Who is Elf? _____

Name _____

Draw all the missing red arrows.
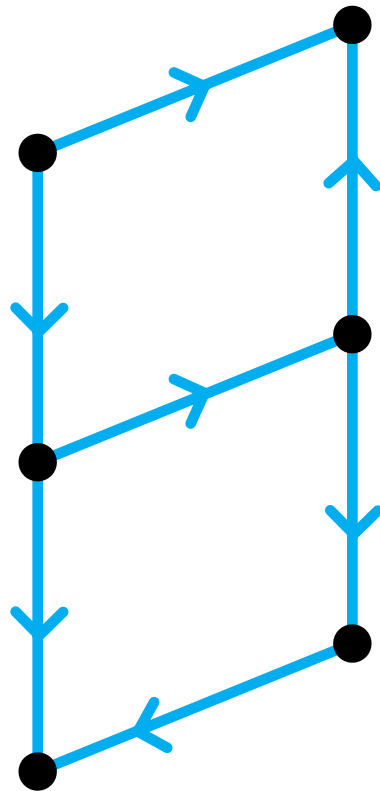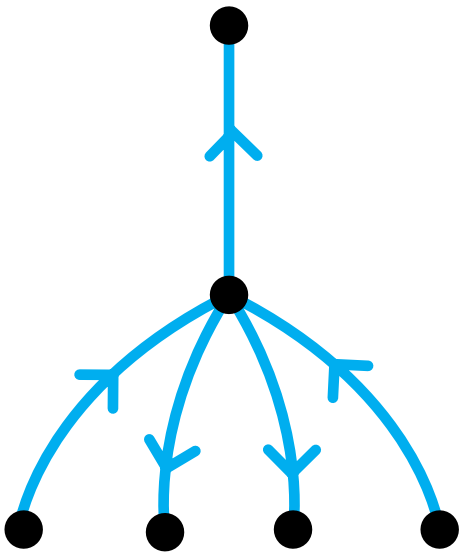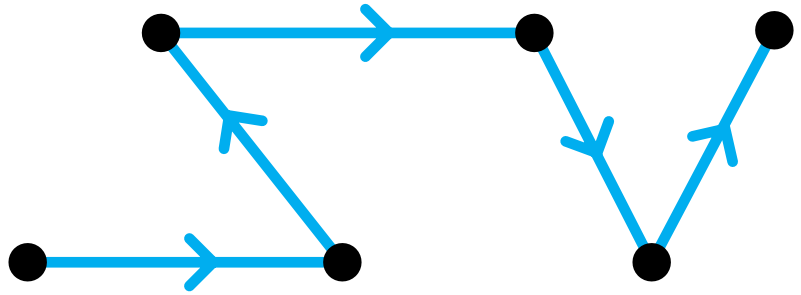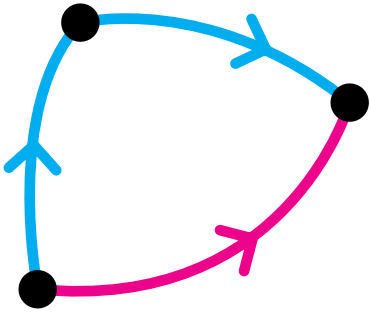
Draw all the missing red arrows and loops.

Name _____

Fill in the chart with ways to label the dots.

⊕2

⊕☐
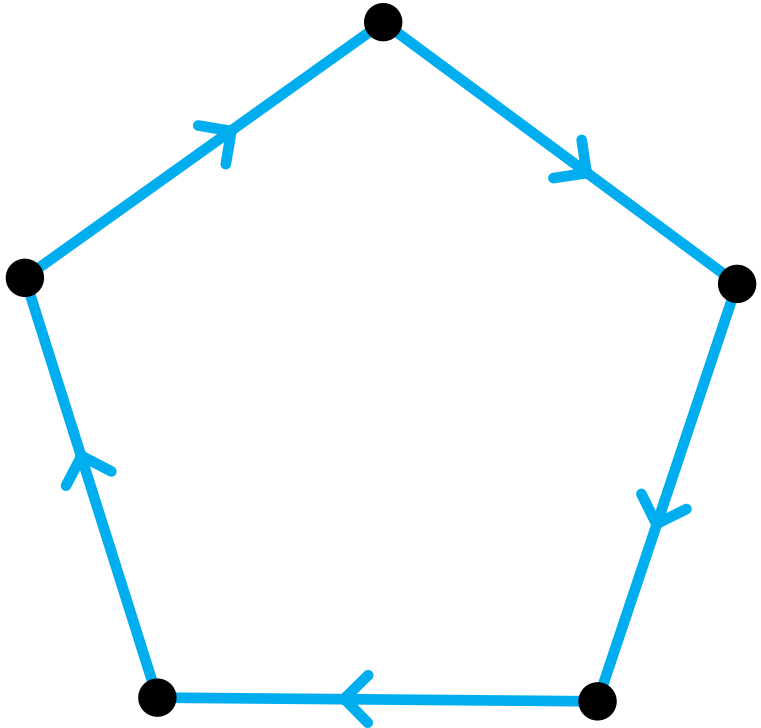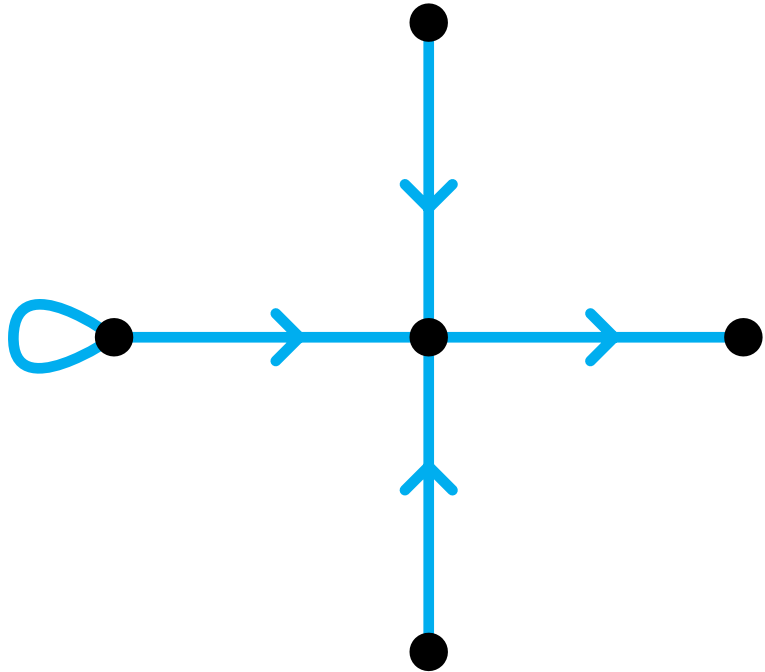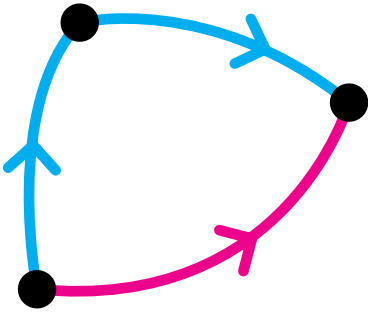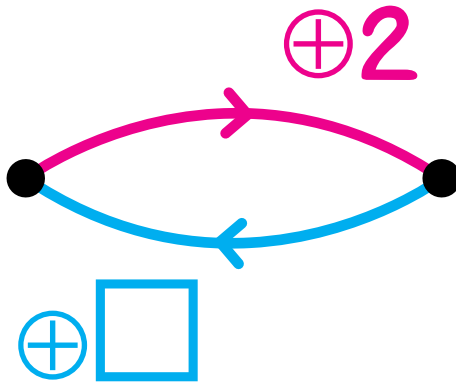
5	
9	1
	0

What could the blue arrow be for? Fill in the blue box.

Name _____

Fill in the chart with ways to label the dots.

⊕**5**

0	
7	2
	1

Name _____

+	4	7	13
5			
10			

−	4	7	13
5			
10			

×	4	7	13
5			
10			

Name _____

Play The Red Arrow Game with this tree. Start at **S**.

S

18

8   108

10

7   0

Play The Red Arrow Game with this tree. Start at **S**.

$\frac{1}{5}$

$\widehat{1}$

1

$\frac{1}{3}$

5

$\widehat{5}$

$\frac{1}{2}$

0

S
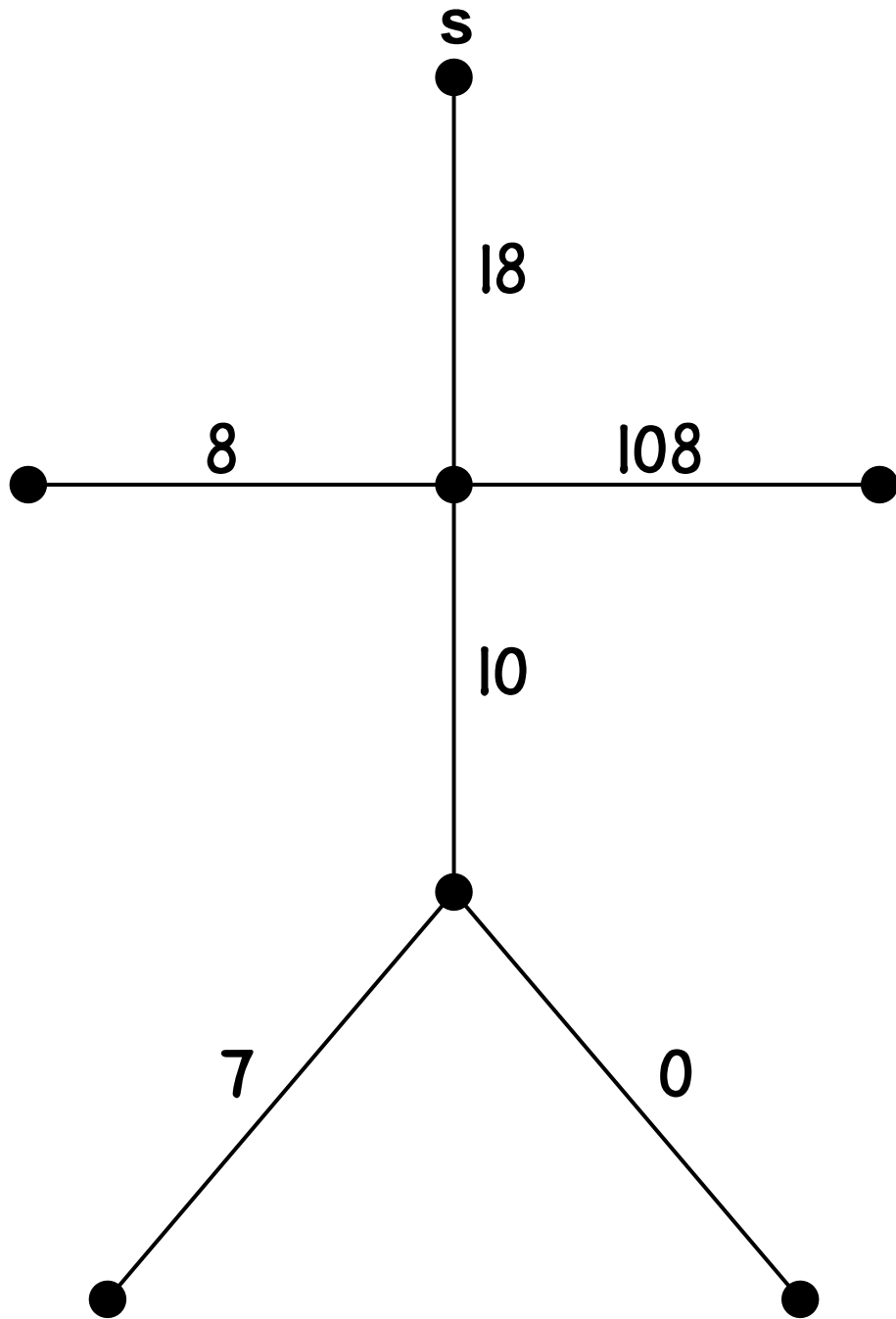
Name _____

Complete these number sentences about multiplication with ten number friends.

$1 \otimes 6 = \boxed{}$ $9 \otimes 1 = \boxed{}$

$2 \otimes 6 = \boxed{}$ $2 \otimes 8 = \boxed{}$

$3 \otimes 6 = \boxed{}$ $3 \otimes 8 = \boxed{}$

$4 \otimes 6 = \boxed{}$ $5 \otimes 7 = \boxed{}$

$5 \otimes 6 = \boxed{}$ $4 \otimes 9 = \boxed{}$

$6 \otimes 6 = \boxed{}$ $7 \otimes 3 = \boxed{}$

Name _____

Find several solutions to this number sentence.
One is done for you.

$$\square \otimes \triangle = 2$$

1	2

1 ⊗ 2 = 2

_____

_____

_____

_____

_____

_____

Name _____

All the ten number friends are here. Draw blue arrows in their ⊗5 picture.

⊗**5**

1
●

2
●

3
●

4
●

0
●

5
●

7
●

6
●

9
●

8
●
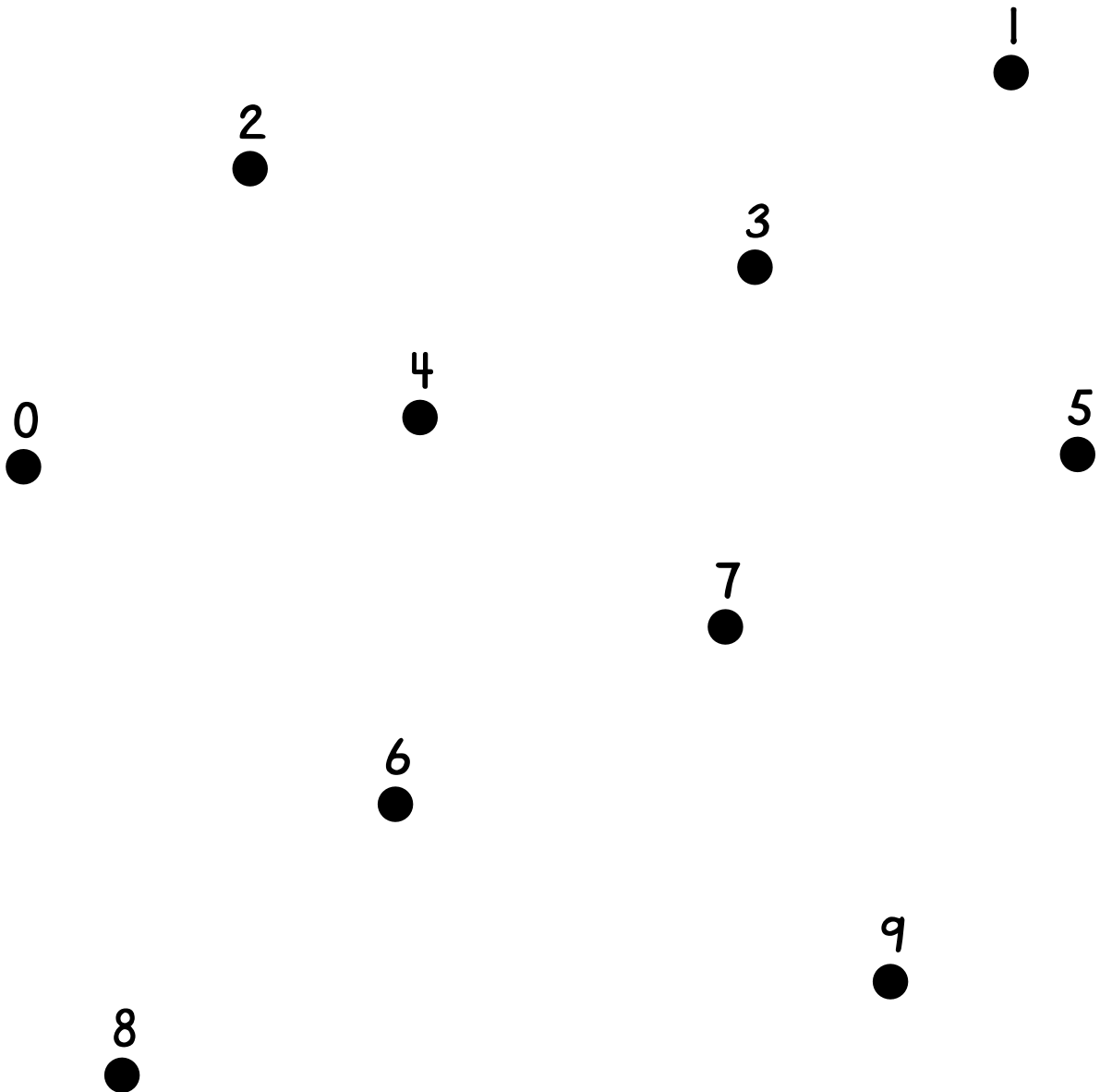
Name _____

Label the dots to put the ten number friends in this ⊗4 picture.

⊗4
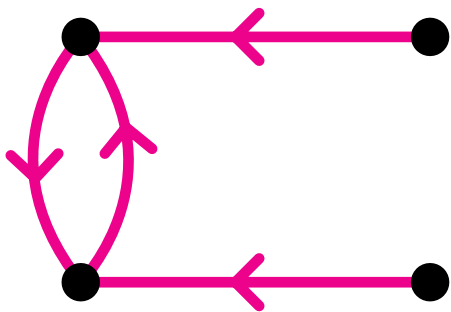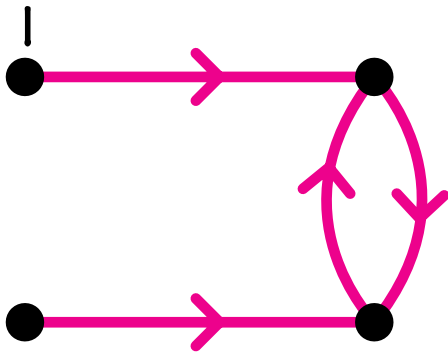
Name _____

Two numbers may talk to each other
if and only if
one number is a multiple of the other.

Label the dots. Many solutions are possible.

Name _____

Two numbers may talk to each other
if and only if
one number is a multiple of the other.

Label the dots. Many solutions are possible.

8

Name _____

G1

G

P

N
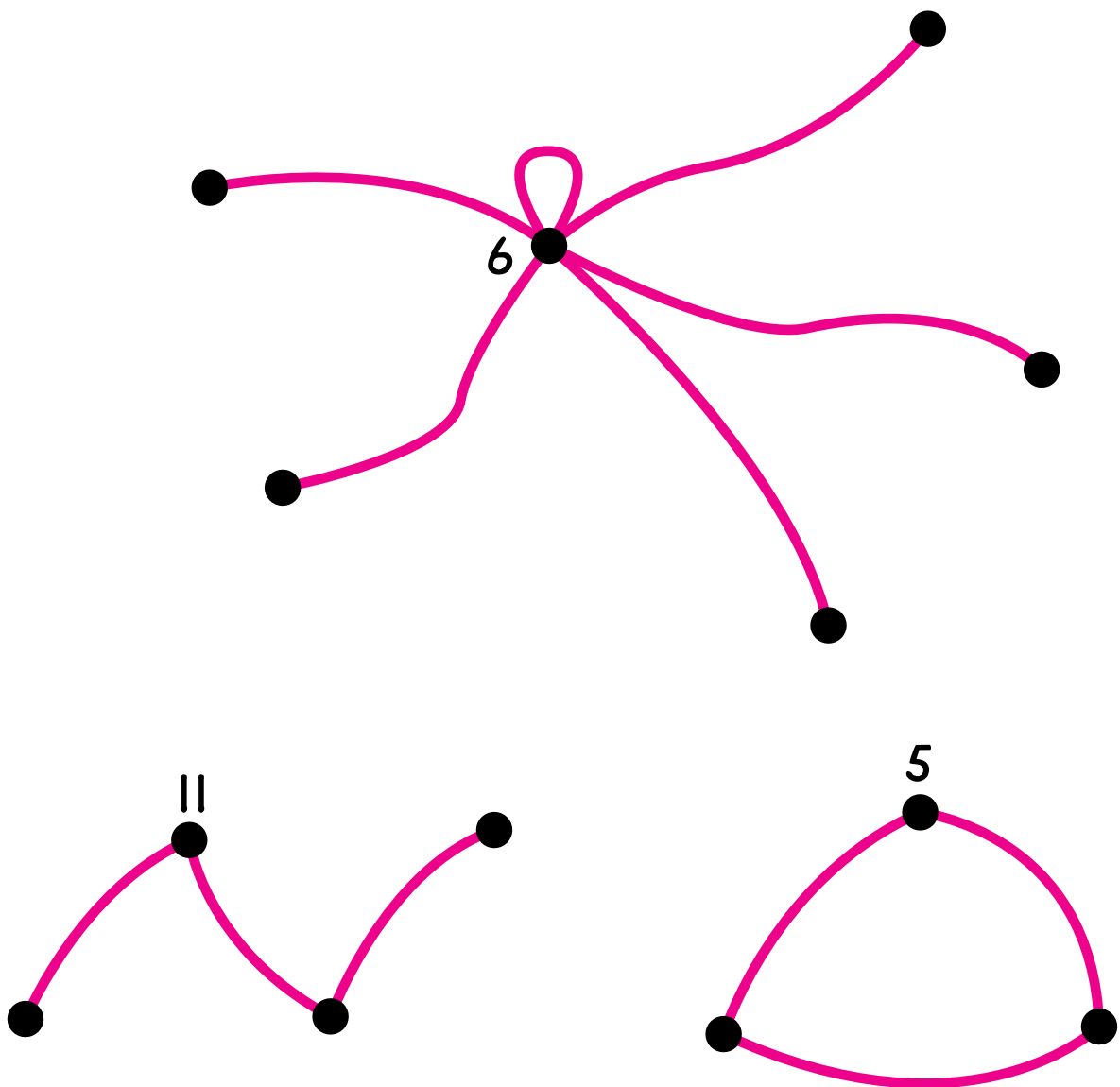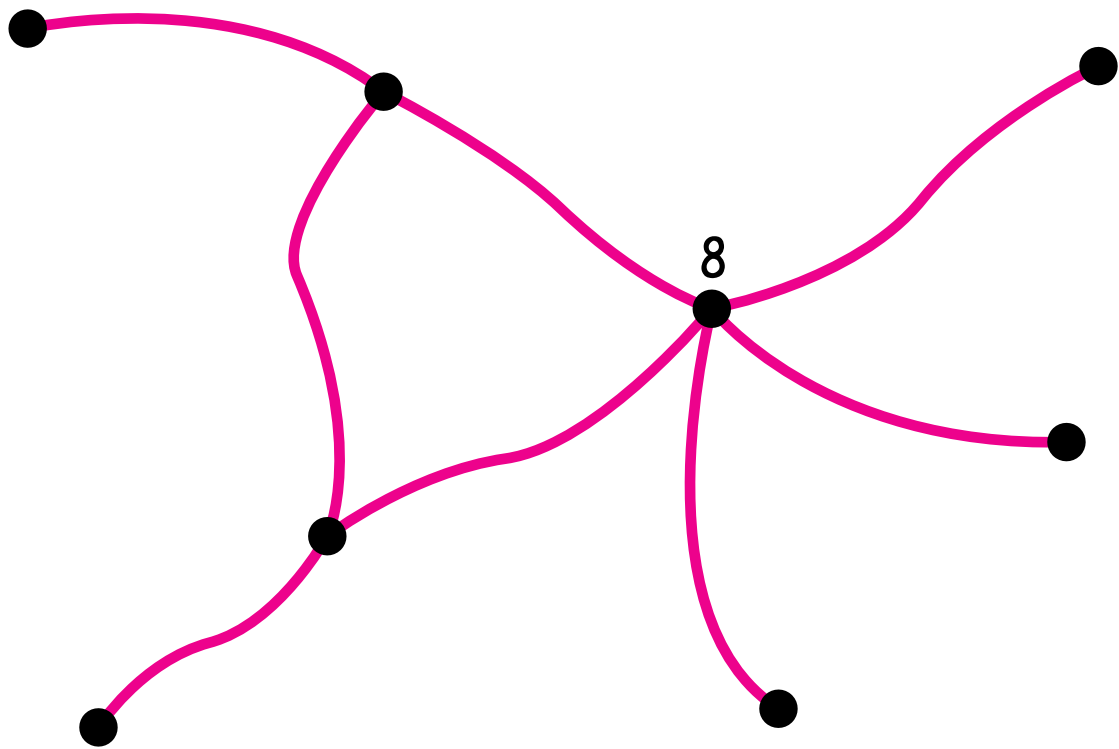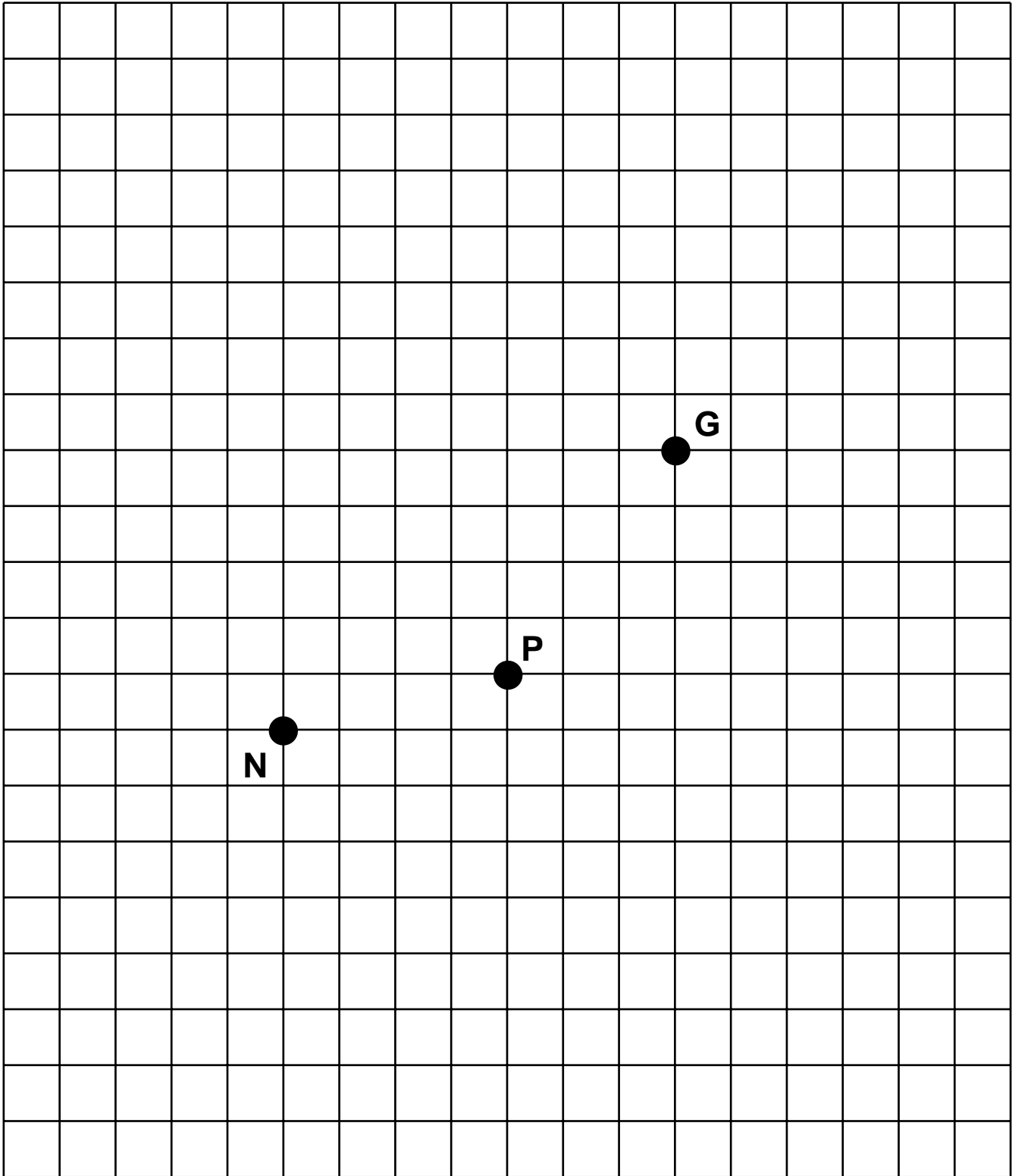
Name _____

Color exactly one-half of each shape. Use the picture to
write another name for $\frac{1}{2}$.

Example:
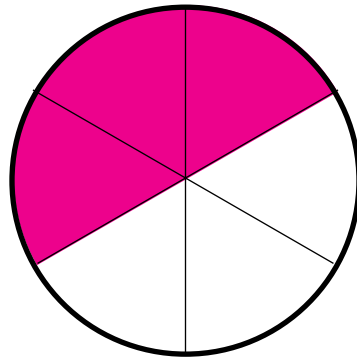
$$\frac{1}{2} = \frac{3}{6}$$
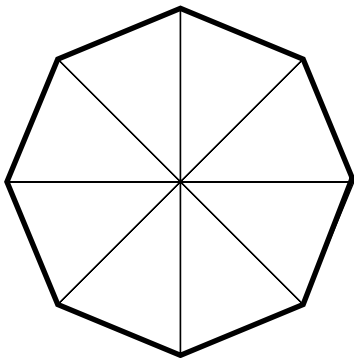
$$\frac{1}{2} = \frac{}{}$$
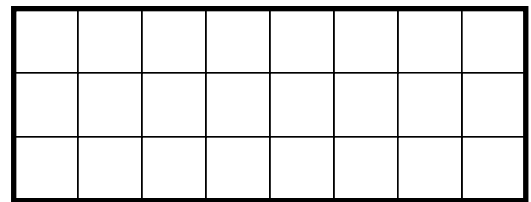
$$\frac{1}{2} = \frac{}{}$$
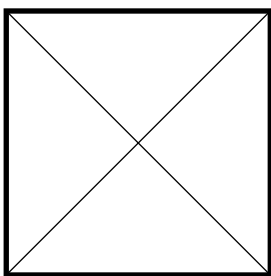
$$\frac{1}{2} = \frac{}{}$$
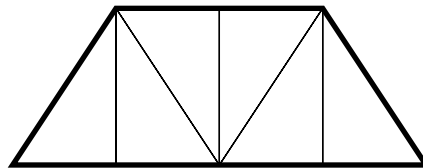
$$\frac{1}{2} = \frac{}{}$$
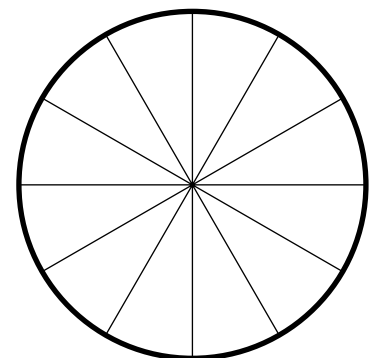
$$\frac{1}{2} = \frac{}{}$$

Name _____

Color exactly one-third of each shape. Use the picture to write another name for $\frac{1}{3}$.

Example:
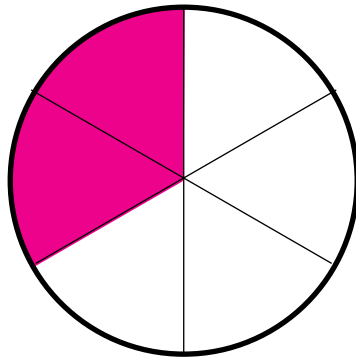
$$\frac{1}{3} = \frac{2}{6}$$

$$\frac{1}{3} = \frac{}{}$$

$$\frac{1}{3} = \frac{}{}$$

$$\frac{1}{3} = \frac{}{}$$

$$\frac{1}{3} = \frac{}{}$$

$$\frac{1}{3} = \frac{}{}$$
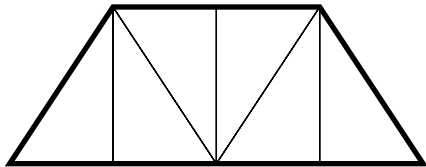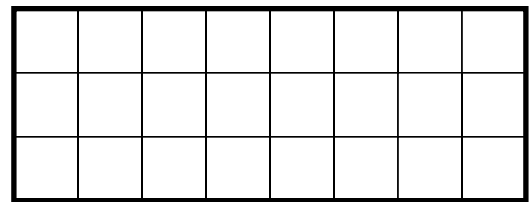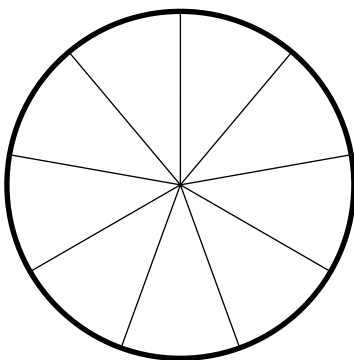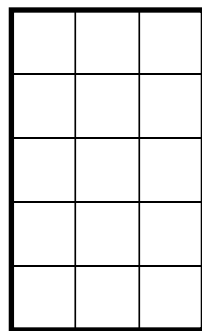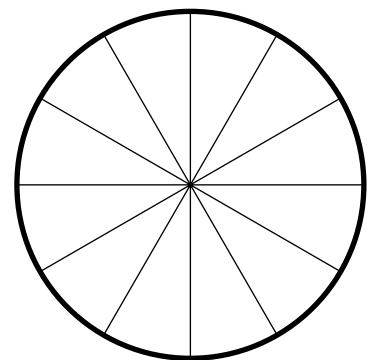
Name _____

Complete the table.

Taxi-distance from N		How many places?
0 blocks	●	I
1 block	○	
2 blocks	○	
3 blocks	○	

Taxi-distance from N		How many places?
4 blocks	🔵	I6
5 blocks	○	
6 blocks	○	
7 blocks	○	
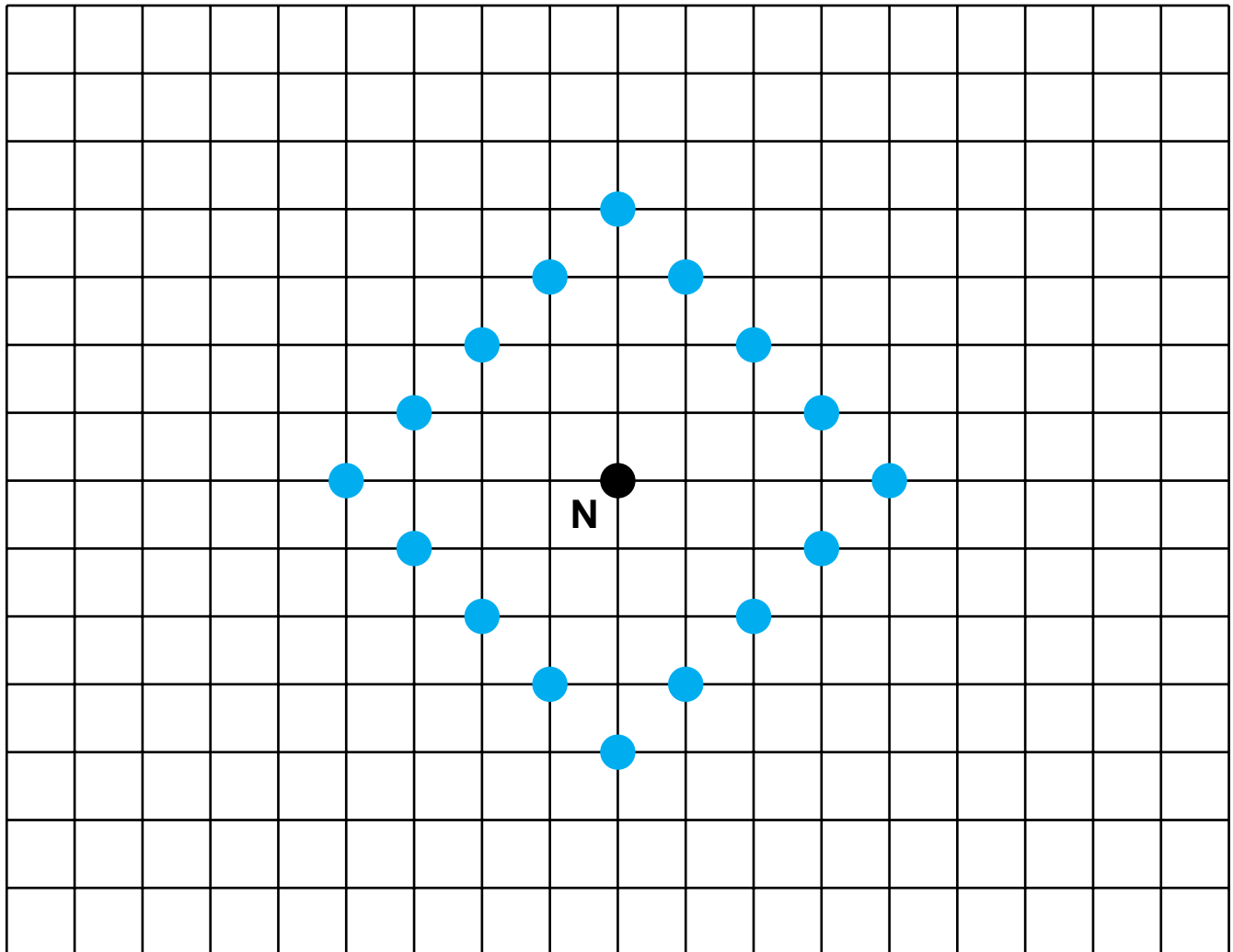
Name _____

Connect the dots with a zigzag path, but do not go out of the yard. Try to make your path as short as possible.
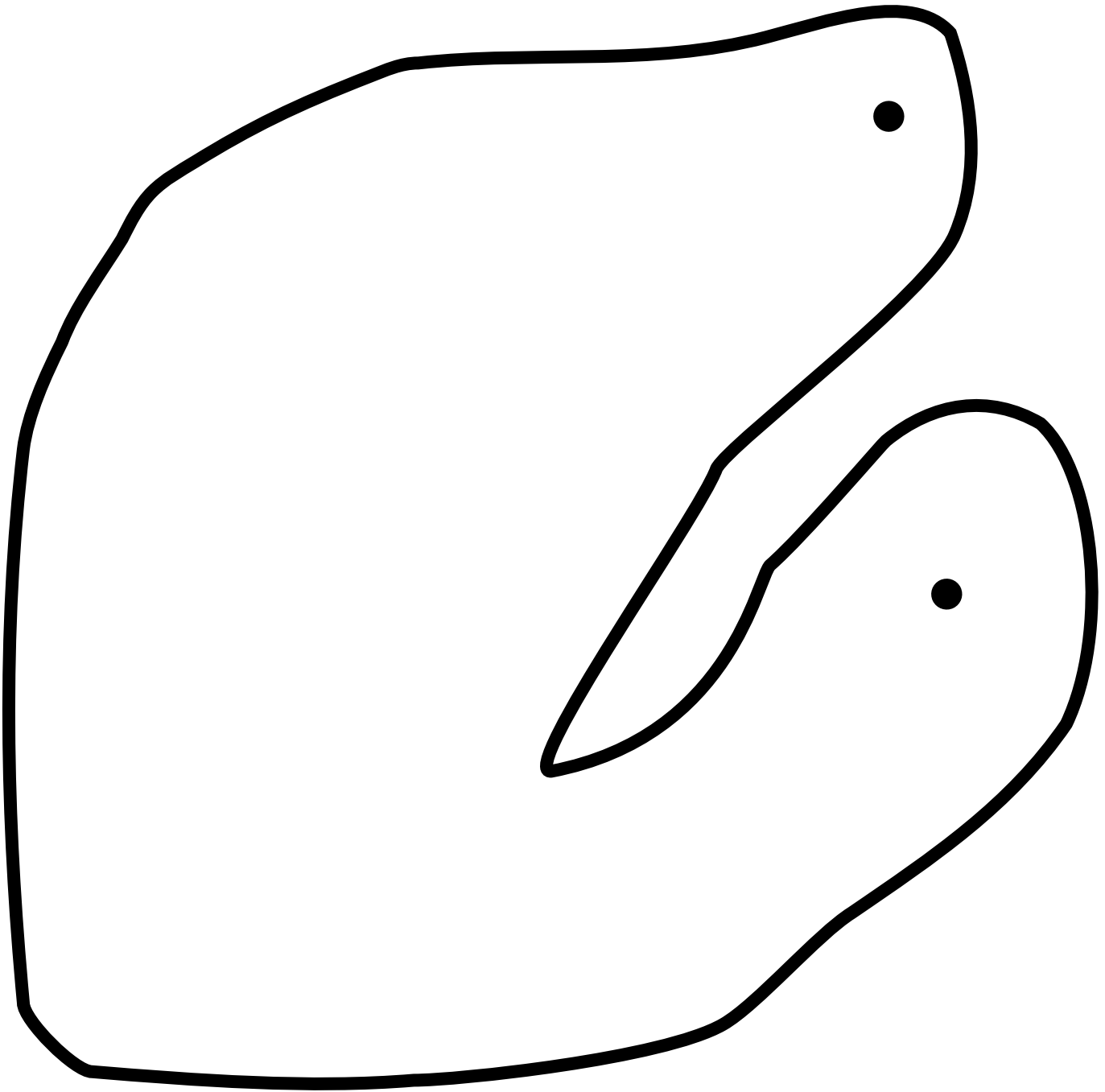
Length of zigzag path = _____ cm = _____ dm.

Connect the dots with a zigzag path, but do not go out of the yard. Try to make your path as short as possible.
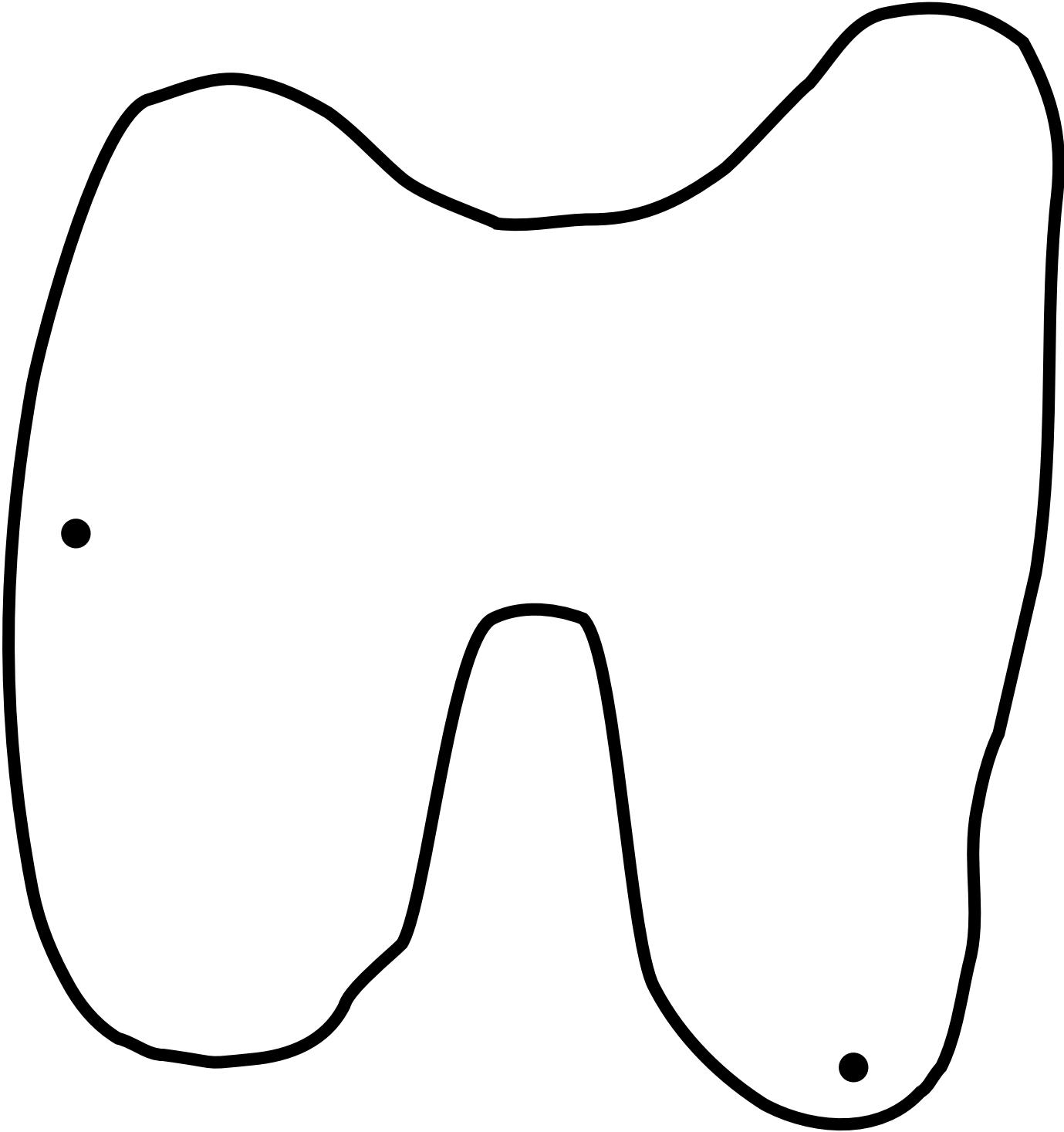
Length of zigzag path = _____ cm = _____ dm.

Name _____

Connect the dots with a zigzag path, but do not go through
the building. Try to draw a path shorter than 1.8 dm.
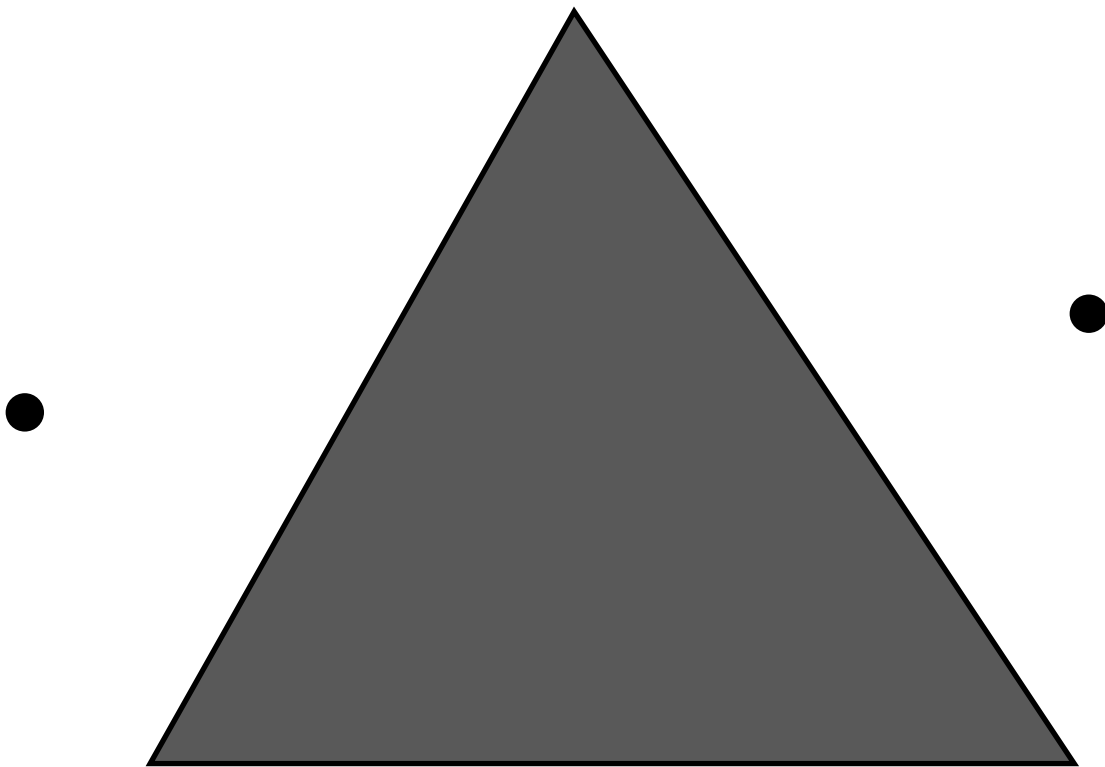
Length of zigzag path = _____ dm (less than 1.8 dm)

Connect the dots with a zigzag path, but do not go through the building. Try to draw a path shorter than 2.3 dm.
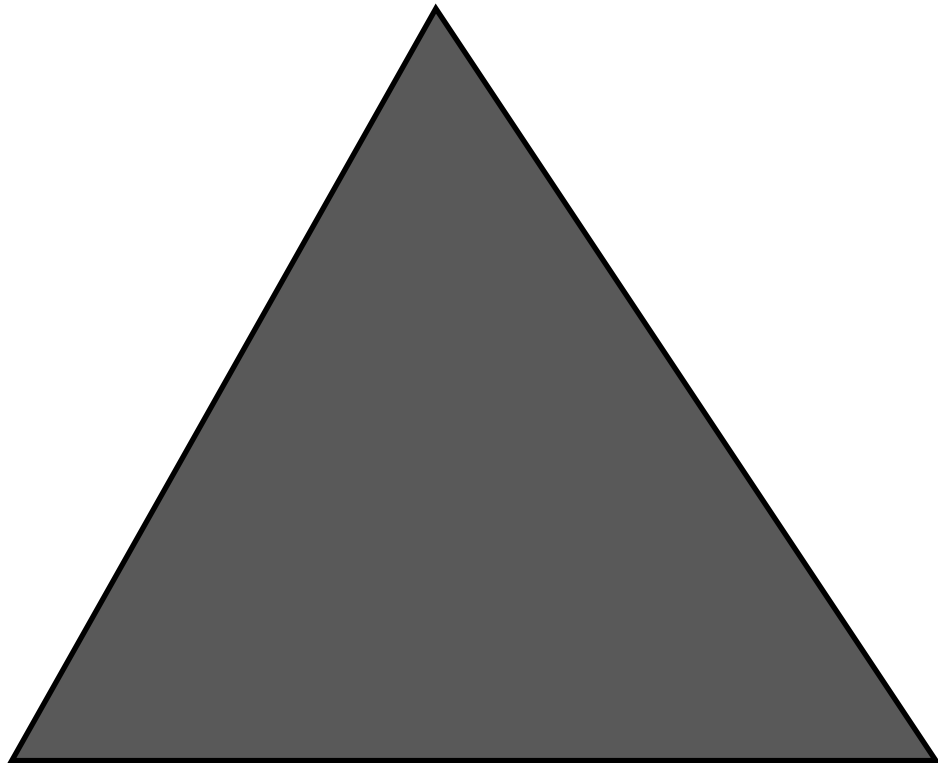
Length of zigzag path = _____ dm (less than 2.3 dm)

Name _____

Connect the dots with a zigzag path, but do not go through the building. Try to draw a path shorter than 2.7 dm.
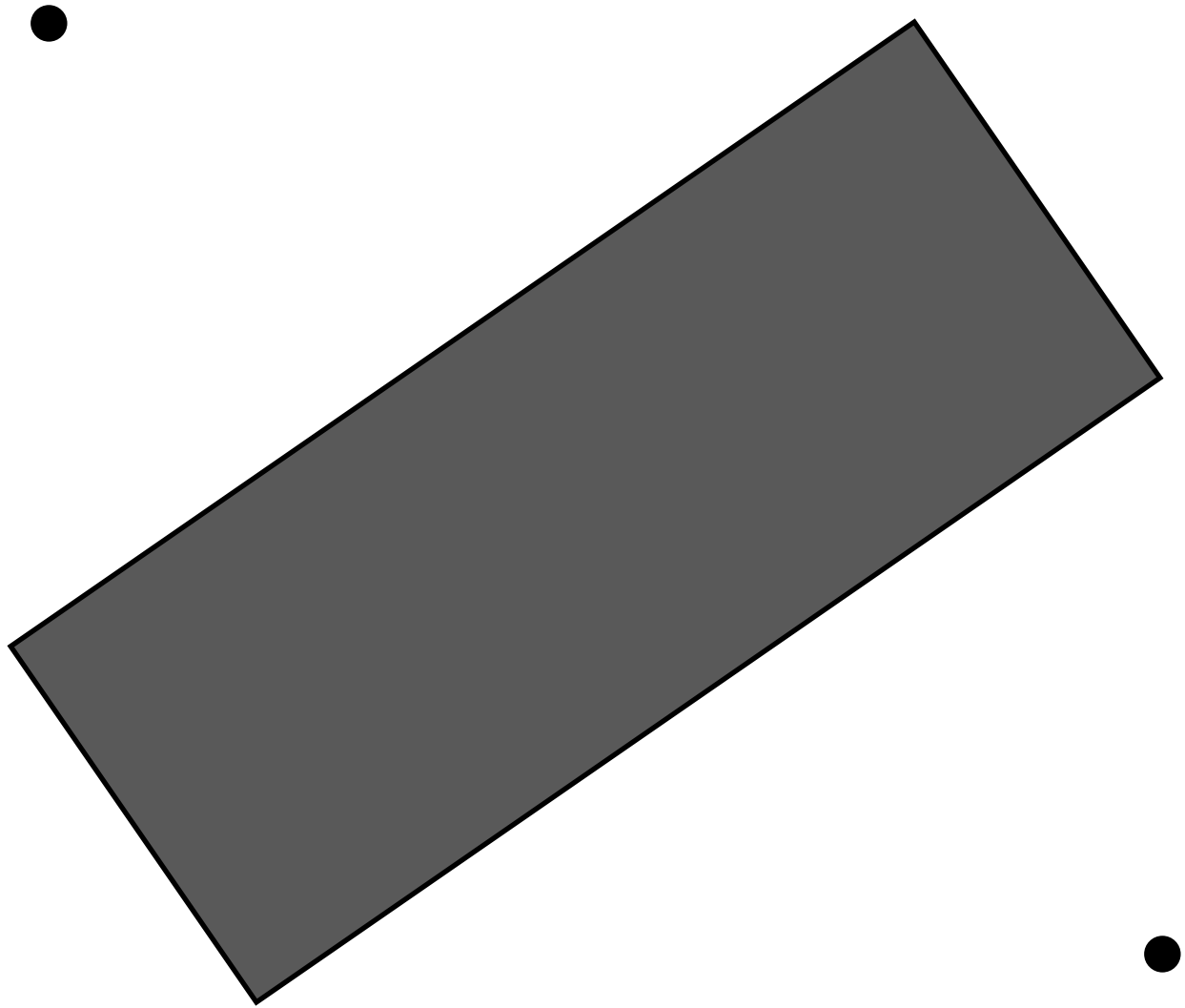
Length of zigzag path = _____ dm (less than 2.7 dm)

Name _____

Connect the dots with a zigzag path, but do not go through the building. Try to draw a path shorter than 2.6 dm.
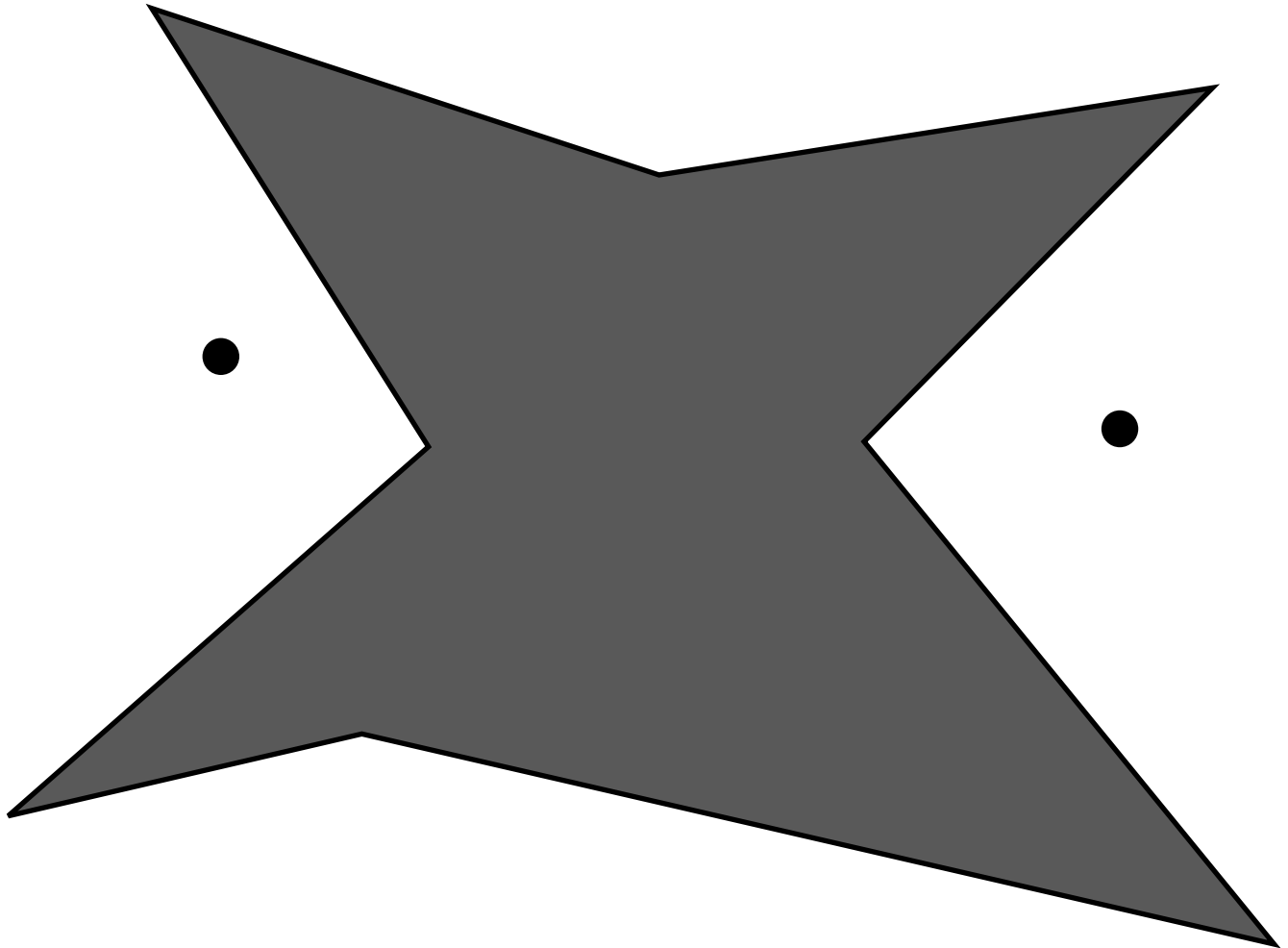
Length of zigzag path = _____ dm (less than 2.6 dm)

Name _____

Find the taxi-distance from **N** to each station.
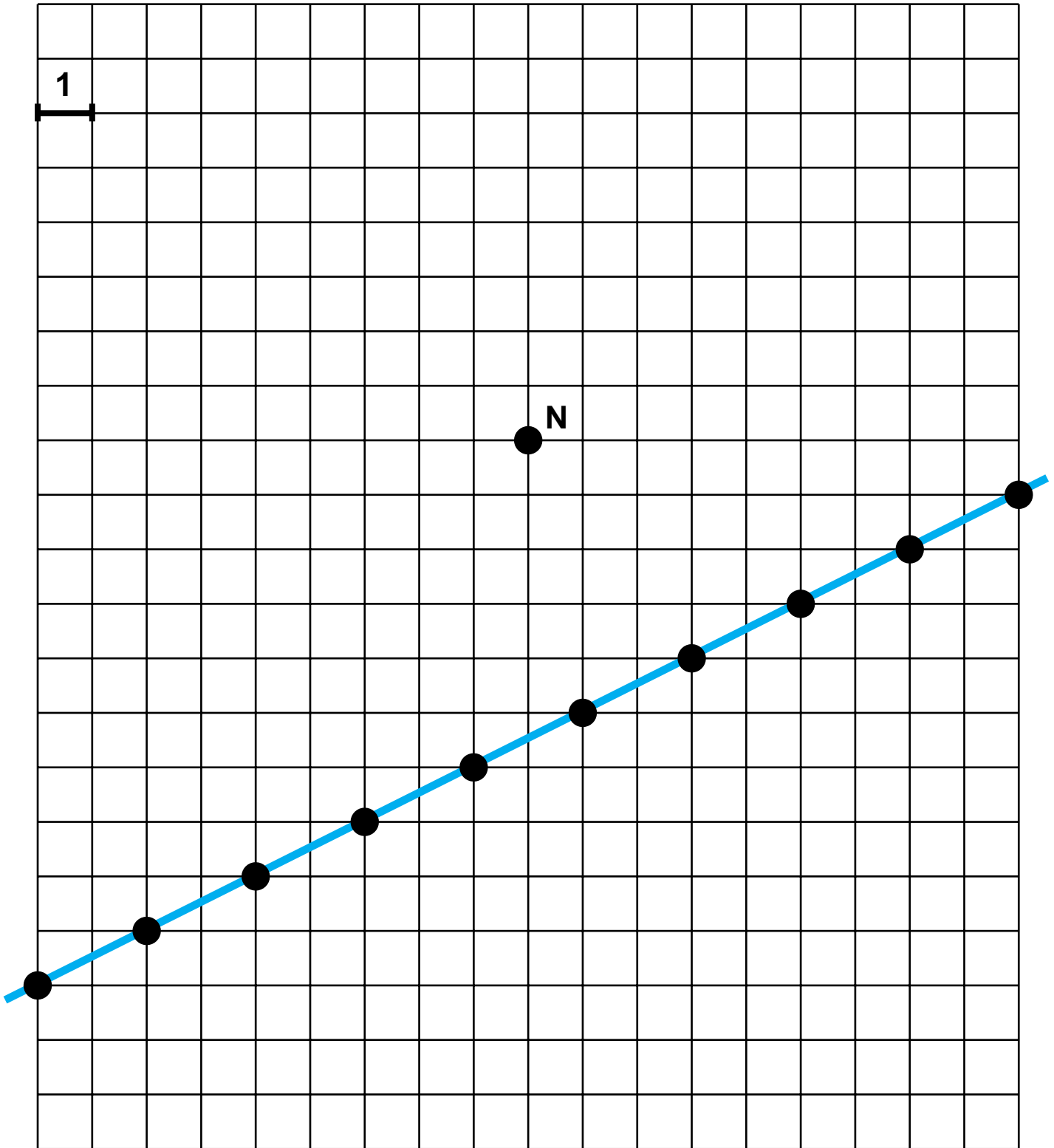
Find the taxi-distance from **A** to each station.
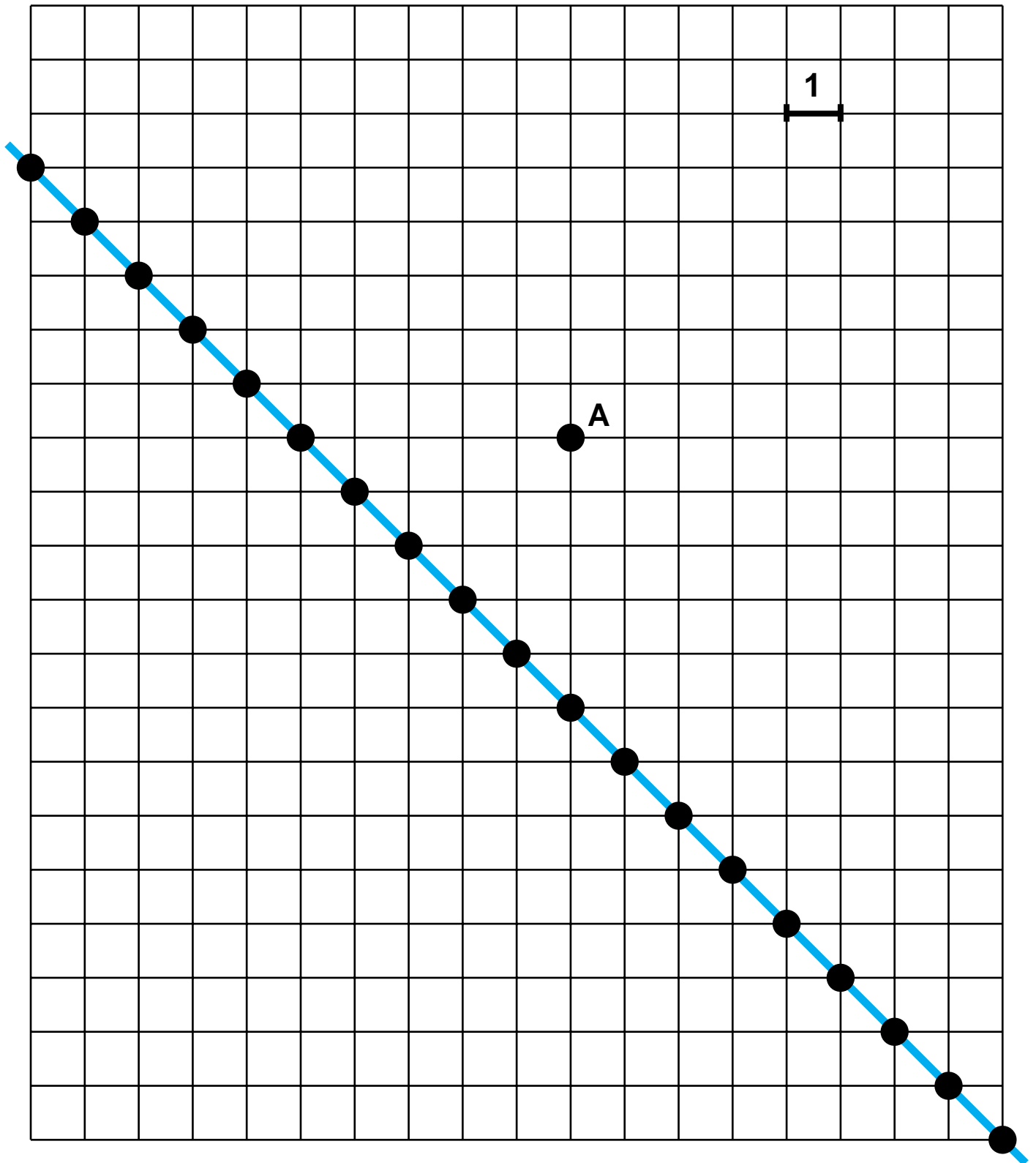
Name _____

Circle in red the stations that are closest to **T**.
Find the taxi-distance from **T** to each station.
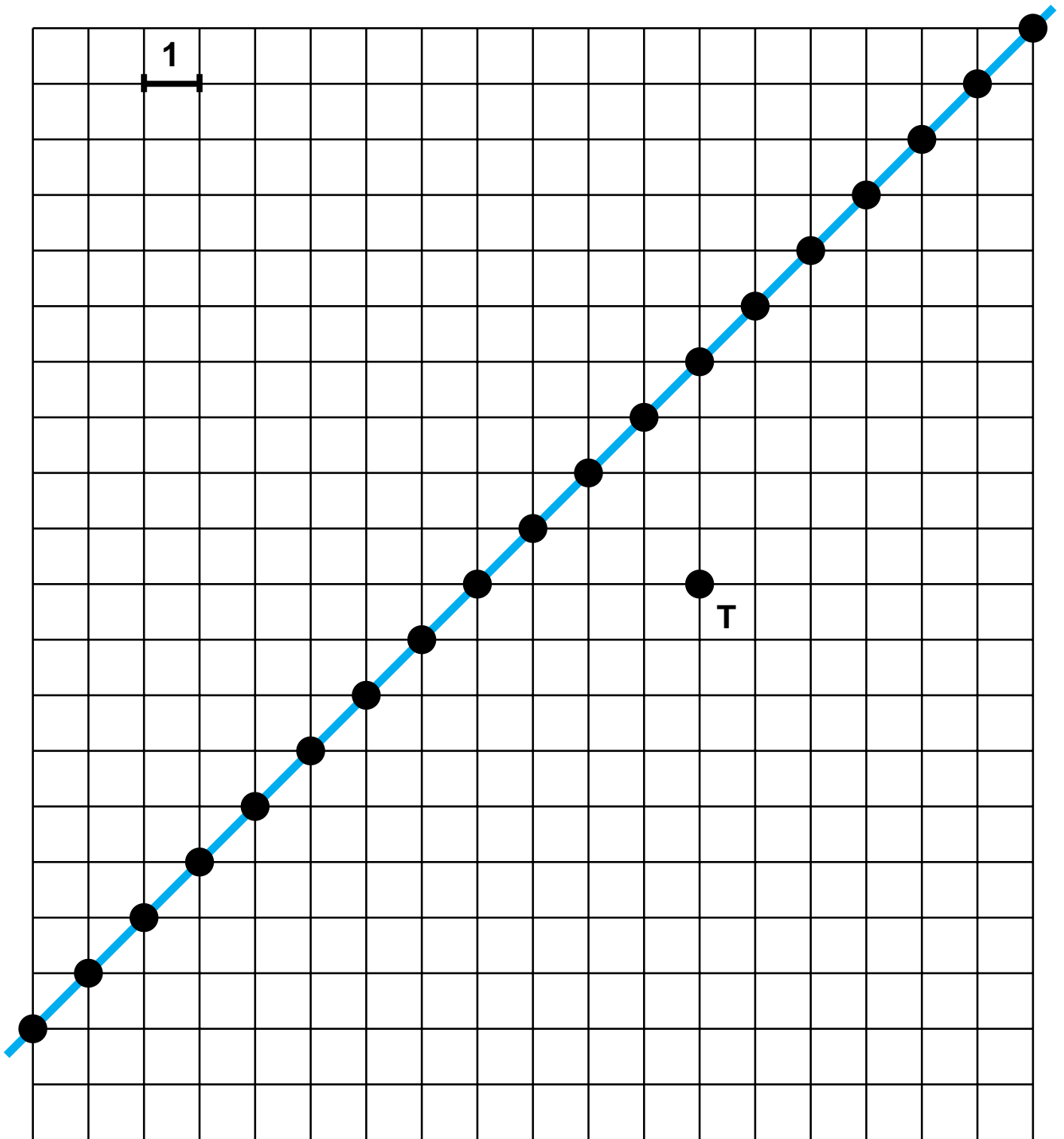
Name _____

Circle in red the stations that are closest to **S**.
Find the taxi-distance from **S** to each station.
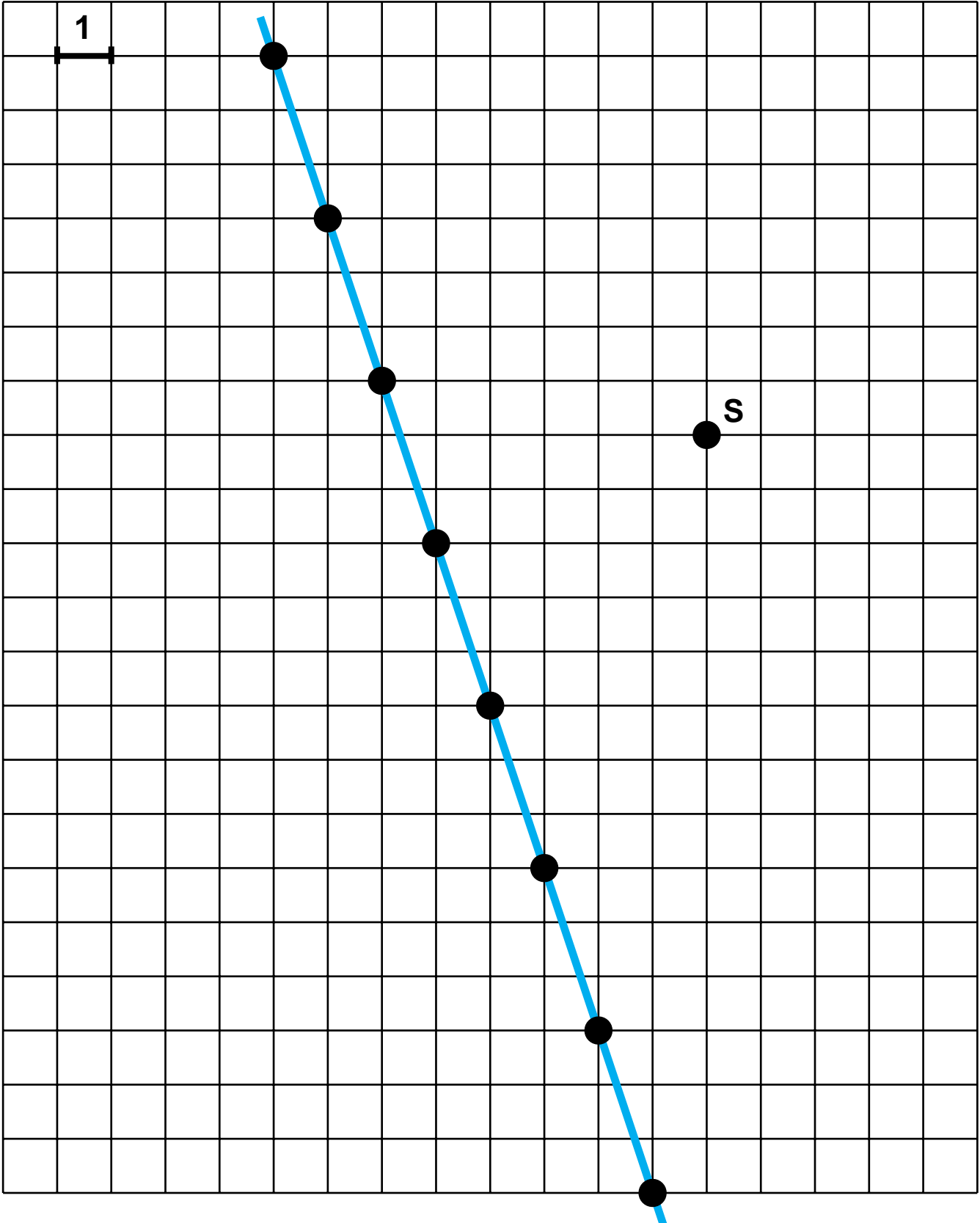
Name _____

Draw a spiral starting at **A**. Do not go beyond the border of the large black square.

Name _____

Draw a spiral starting at **A**. Do not go beyond the border of the large black square.

A
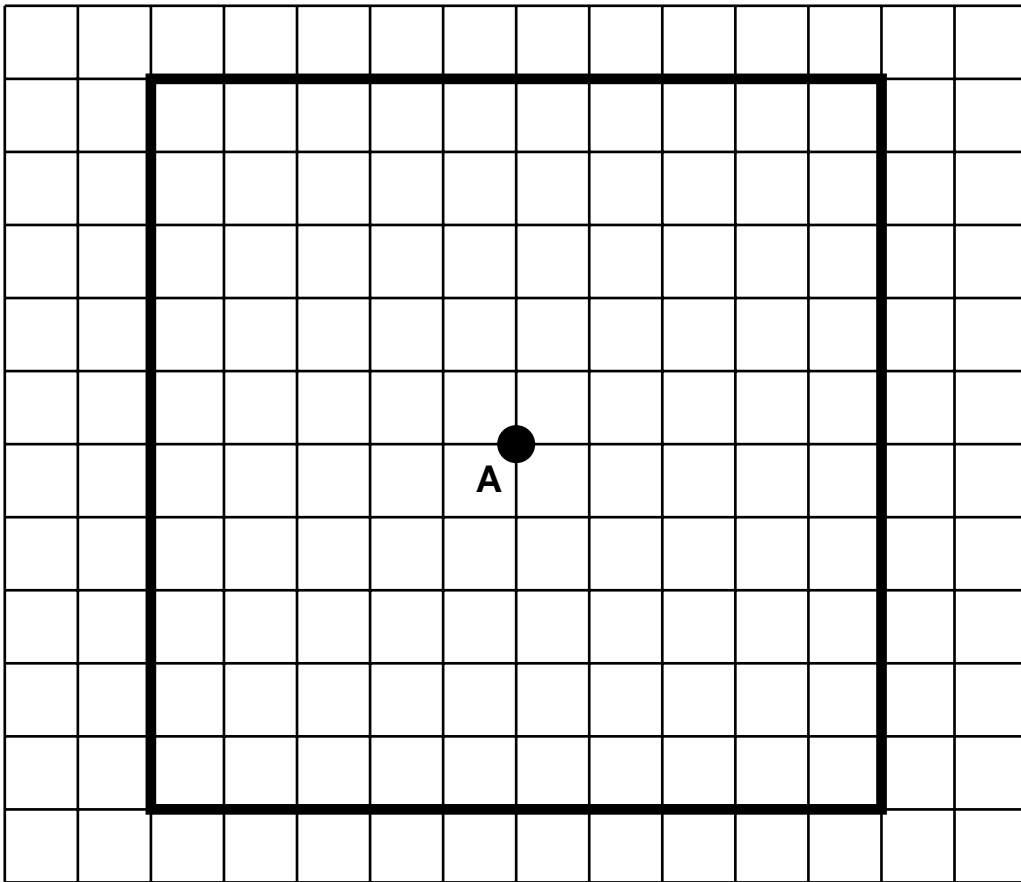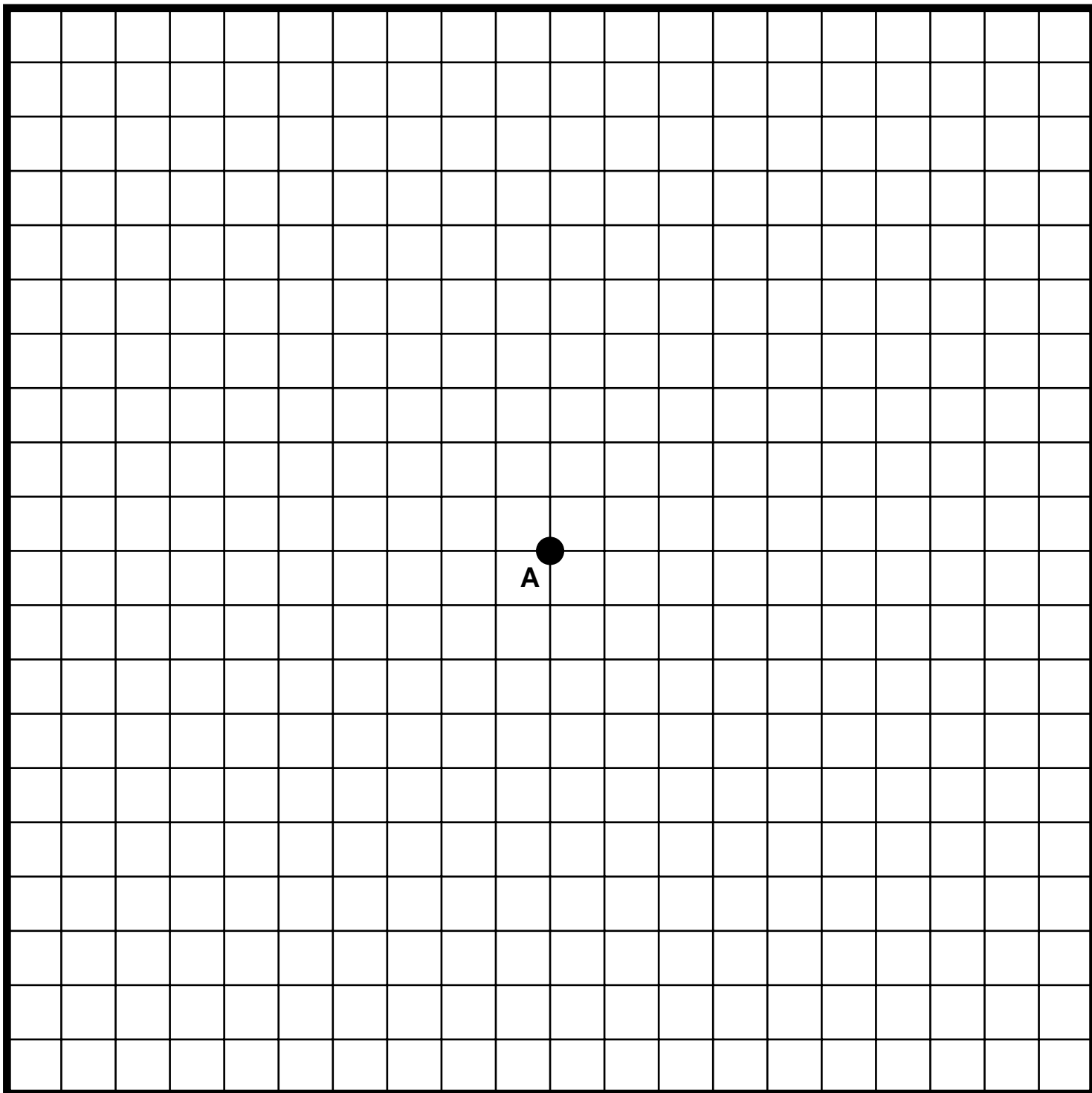
Name _____

Find a hiking trail that uses all the paths. Write **S** at your starting point and **E** at your ending point.
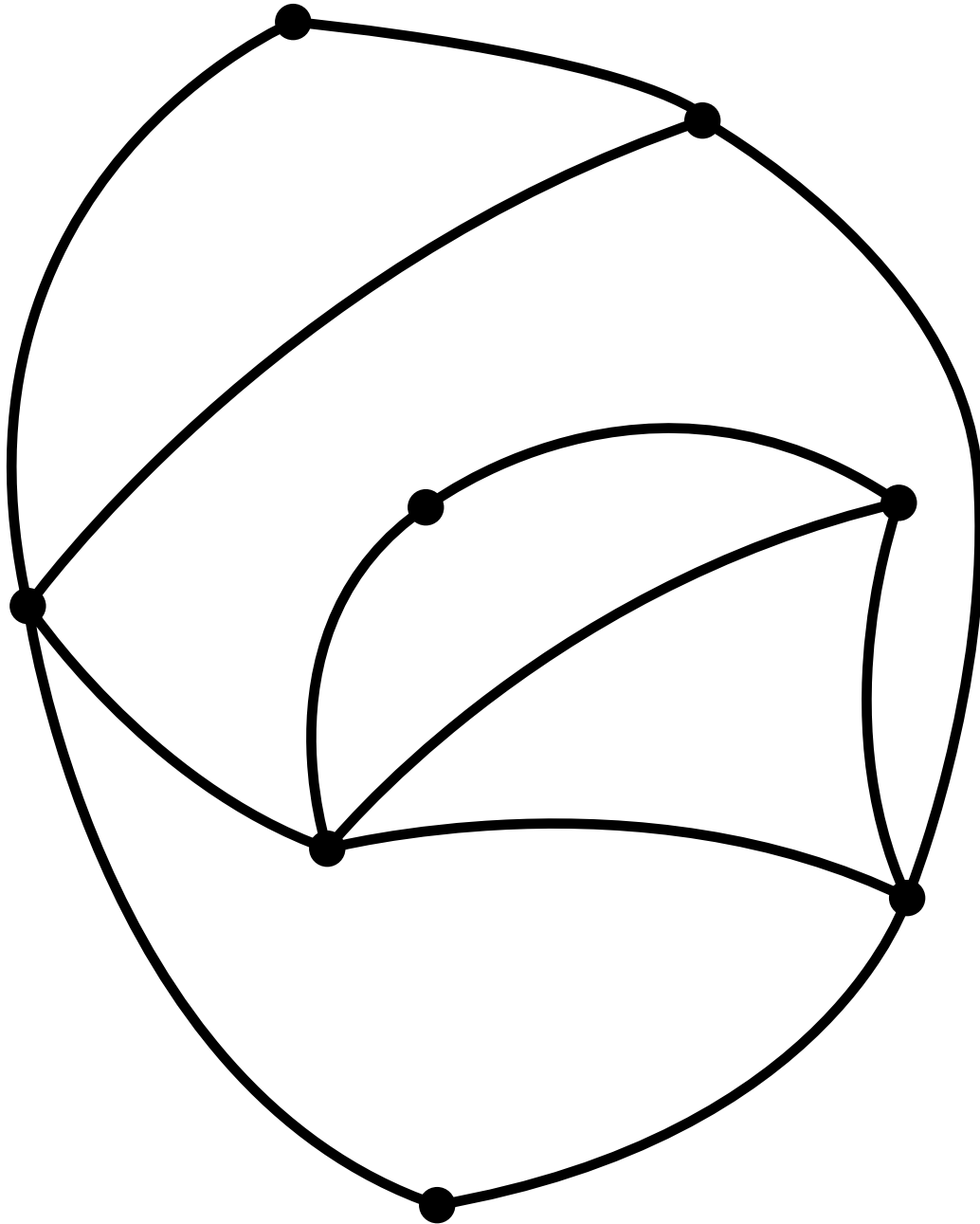
Find a round-trip trail that uses every path just once.
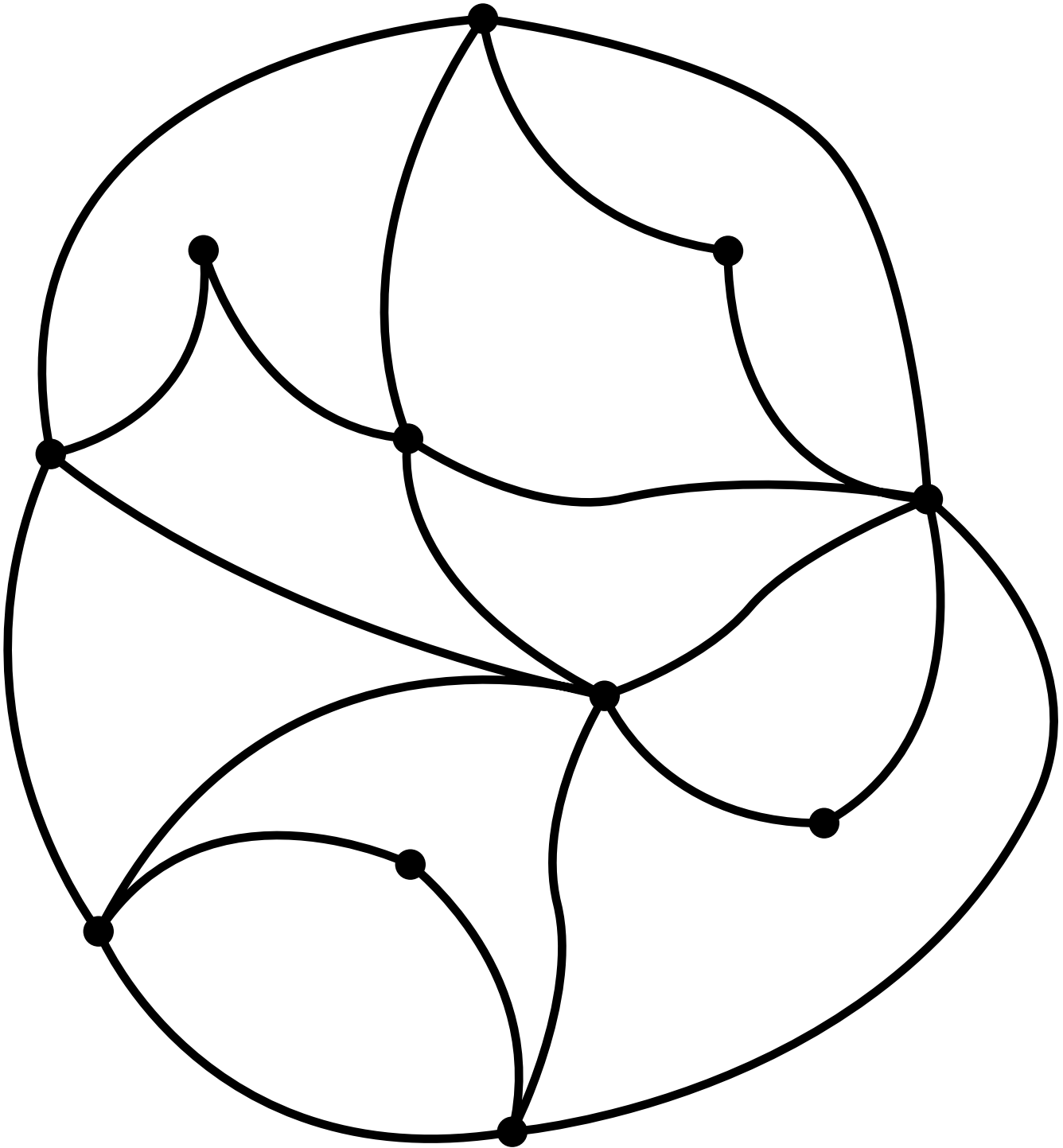
Name _____

TOUR: Uses each door exactly once

Find a tour of this house. You may start and end where you like. Mark your starting place **S** and your ending place **E**.
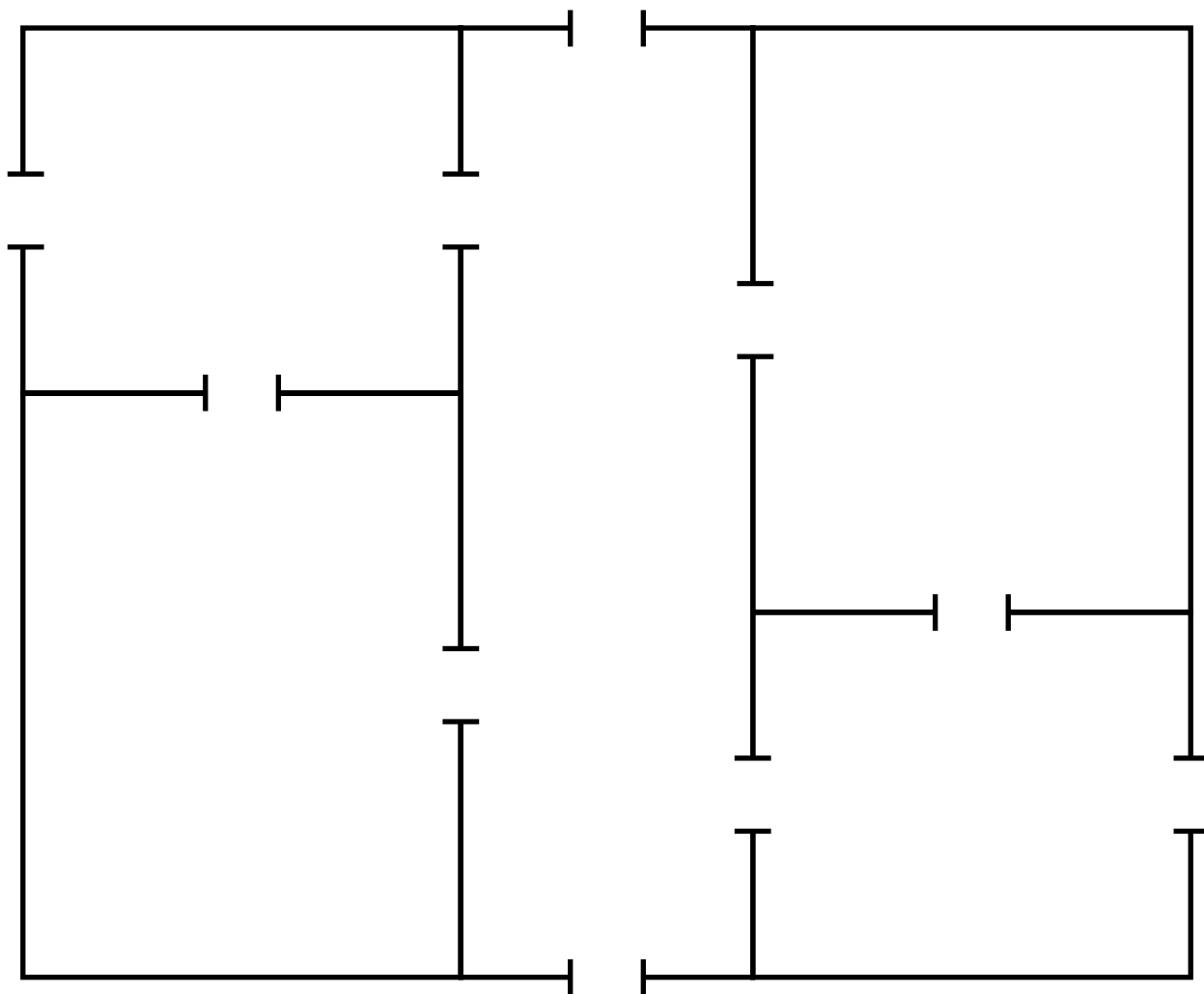
Name _____

TOUR: Uses each door exactly once

Find a tour of this house. You may start and end where you like. Mark your starting place **S** and your ending place **E**.
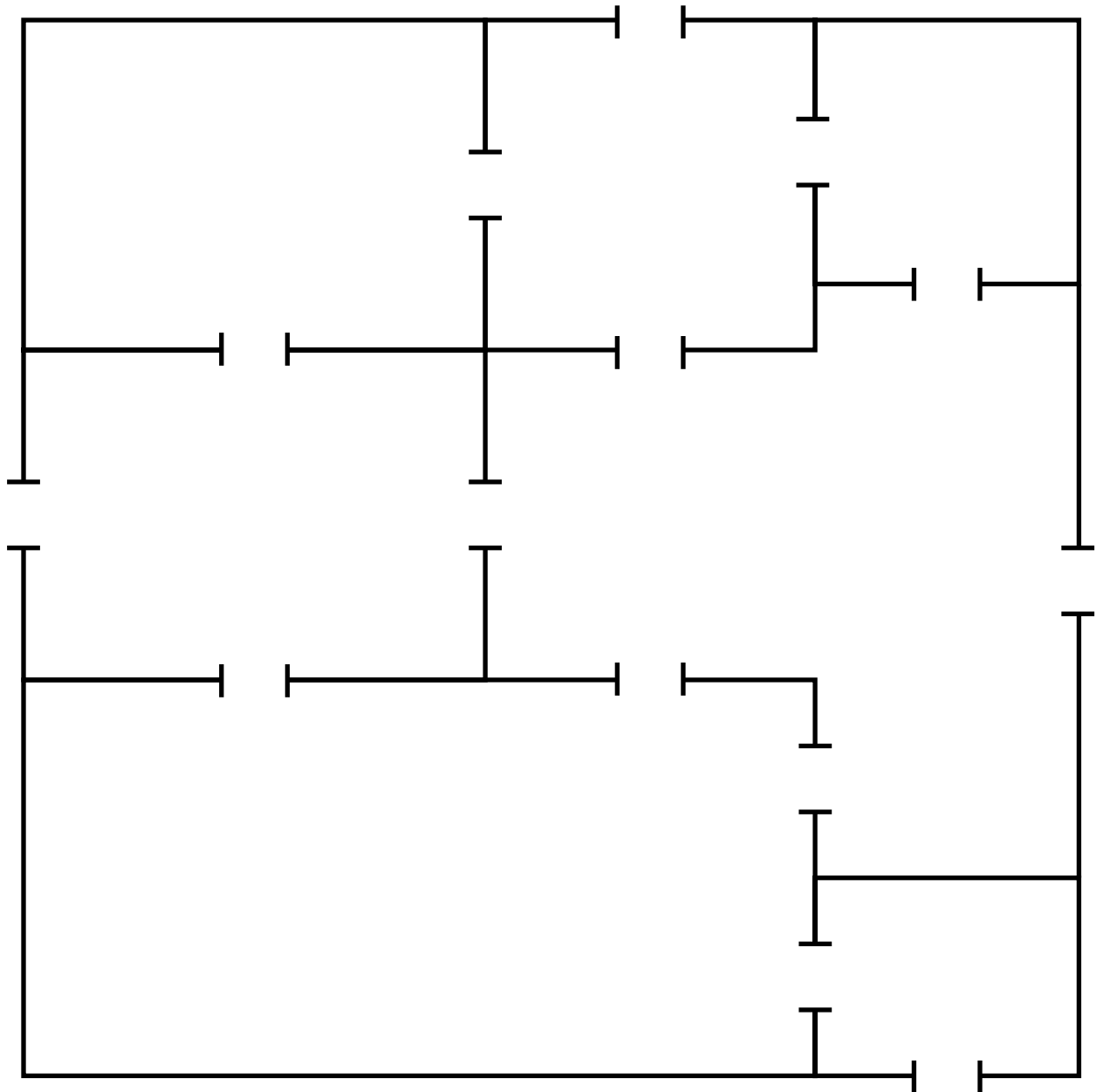
Name _____

TOUR: Uses each door exactly once

Try to find tours of these houses.

Possible   Impossible
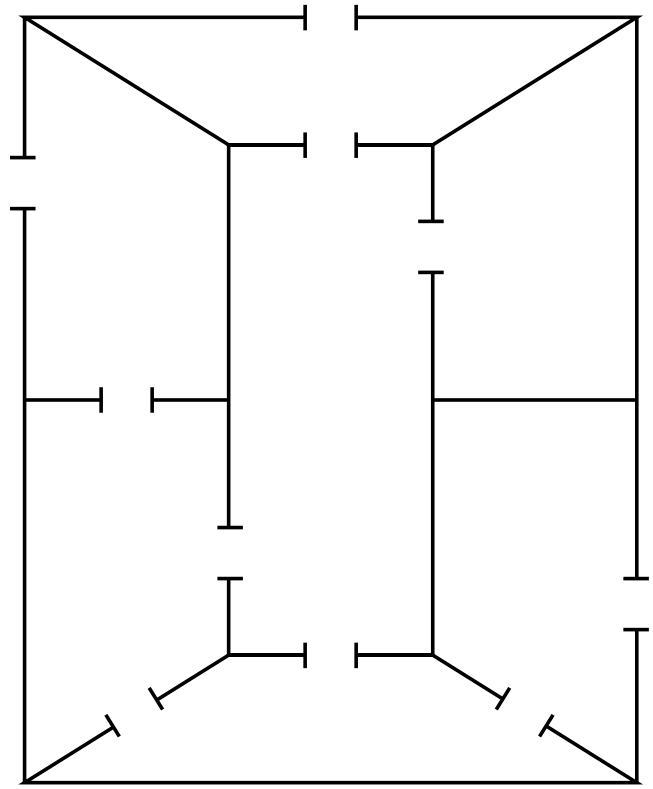
Possible   Impossible

TOUR: Uses each door exactly once

Try to find tours of these houses that start and end at the same place.
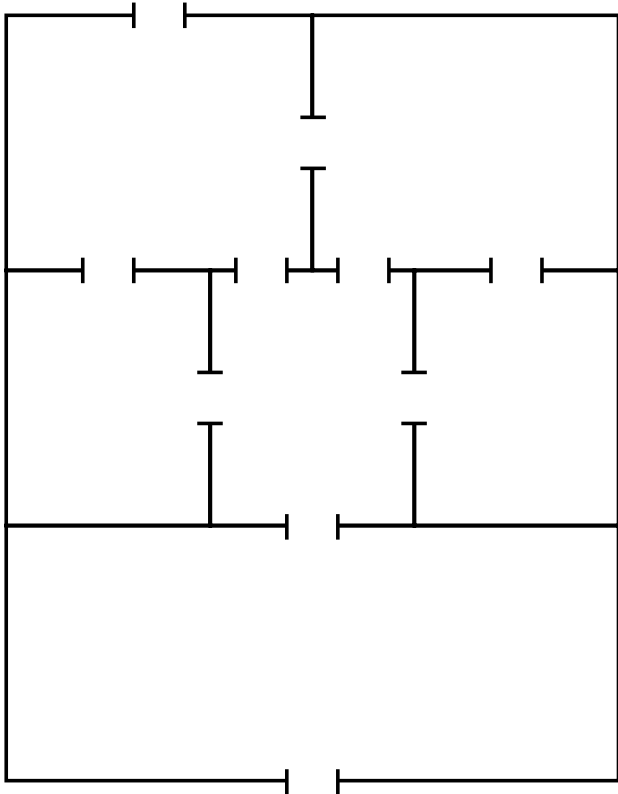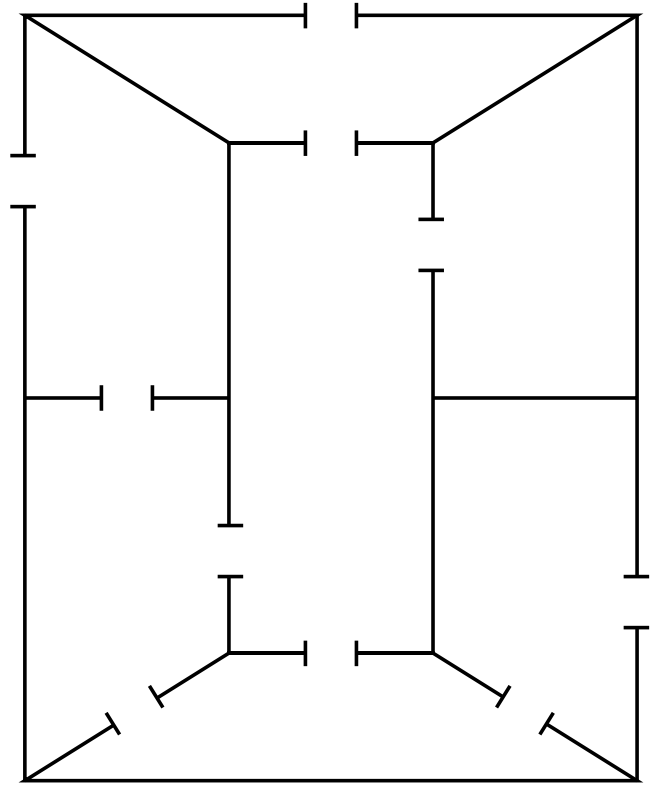
Possible   Impossible   Possible   Impossible

Name _____

TOUR: Uses each door exactly once

Find a tour of this house. You may start and end where you like.

On tracing paper, draw a map of this house. Show a hiking trail corresponding to your tour.

Name _____

TOUR: Uses each door exactly once

Find a tour of this house. You may start and end where you like.
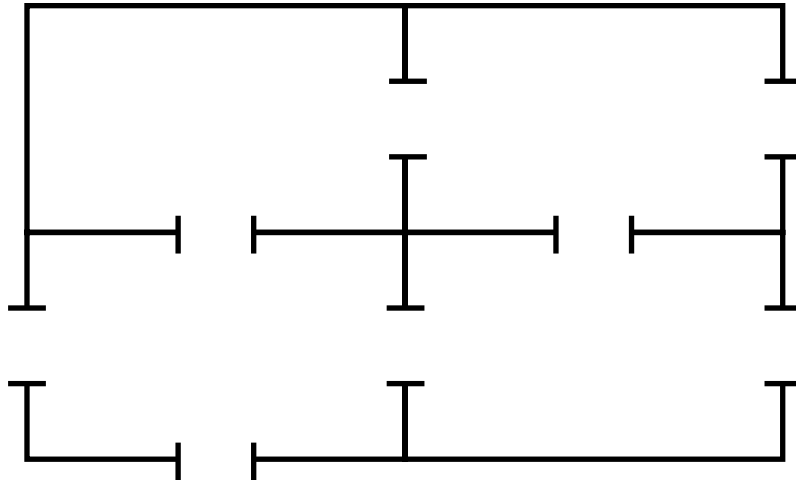
On tracing paper, draw a map of this house. Show a hiking trail corresponding to your tour.

Name _____

TOUR: Uses each door exactly once

Find a tour of this house. You may start and end where you like.

On tracing paper, draw a map of this house. Show a hiking trail corresponding to your tour.

Draw a house plan for this map.
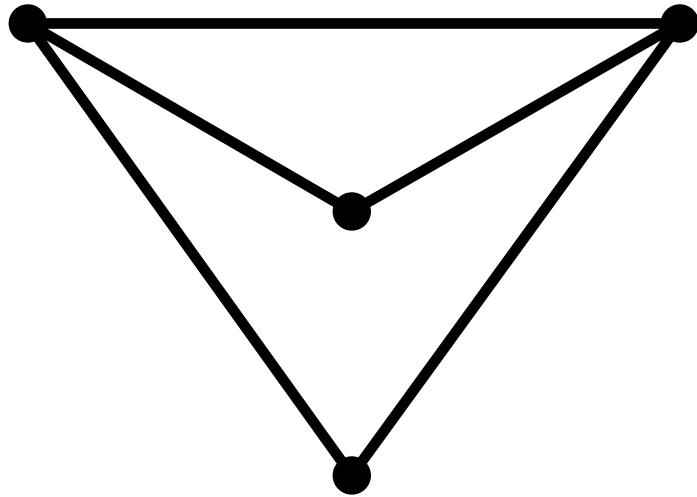
Name _____

Color and cut out sev eral rectangles, each with area 12 cm^2.

1 cm   1 cm^2

Name _____

G10(b)

area = 12 cm^2

1 cm^2
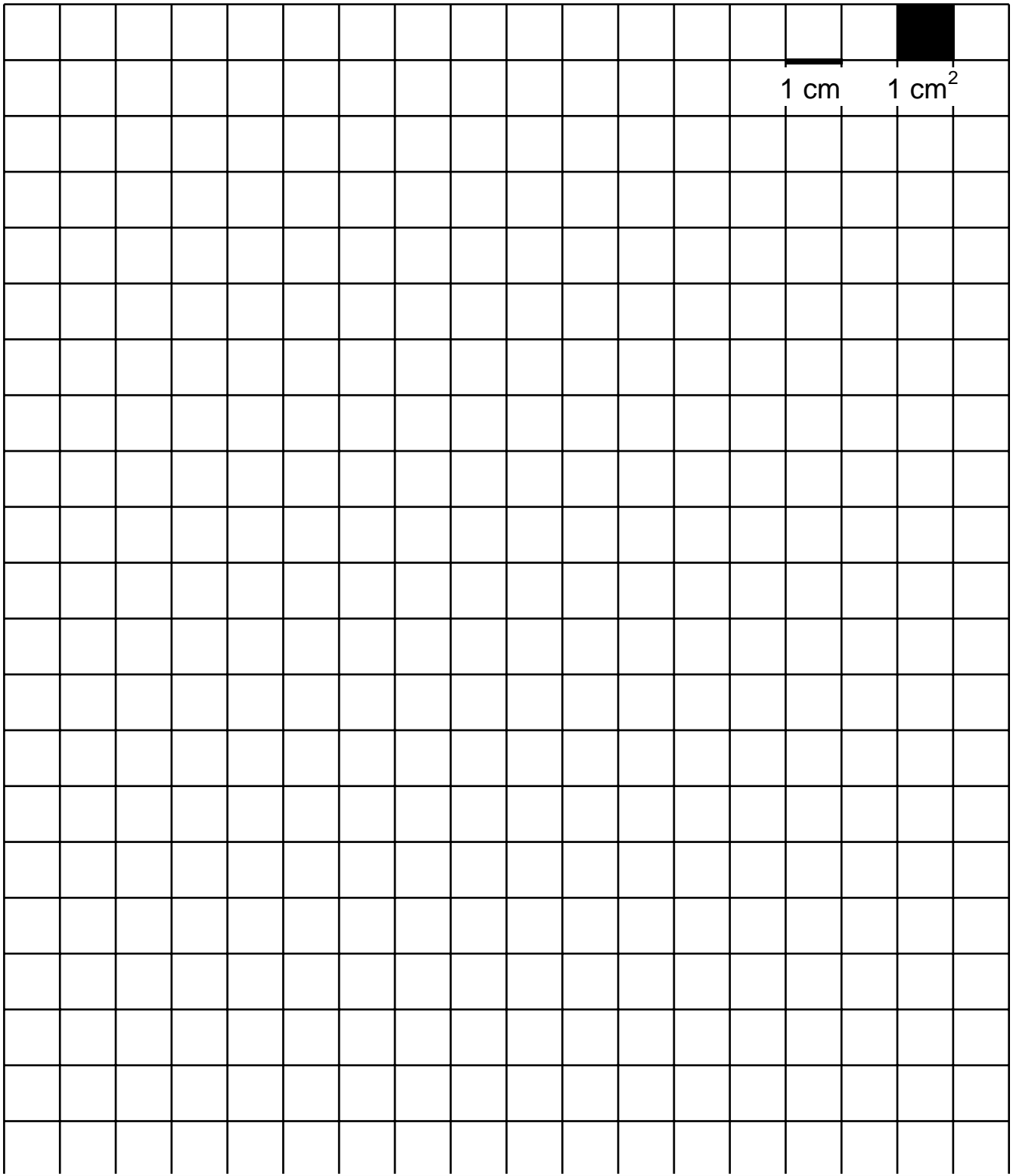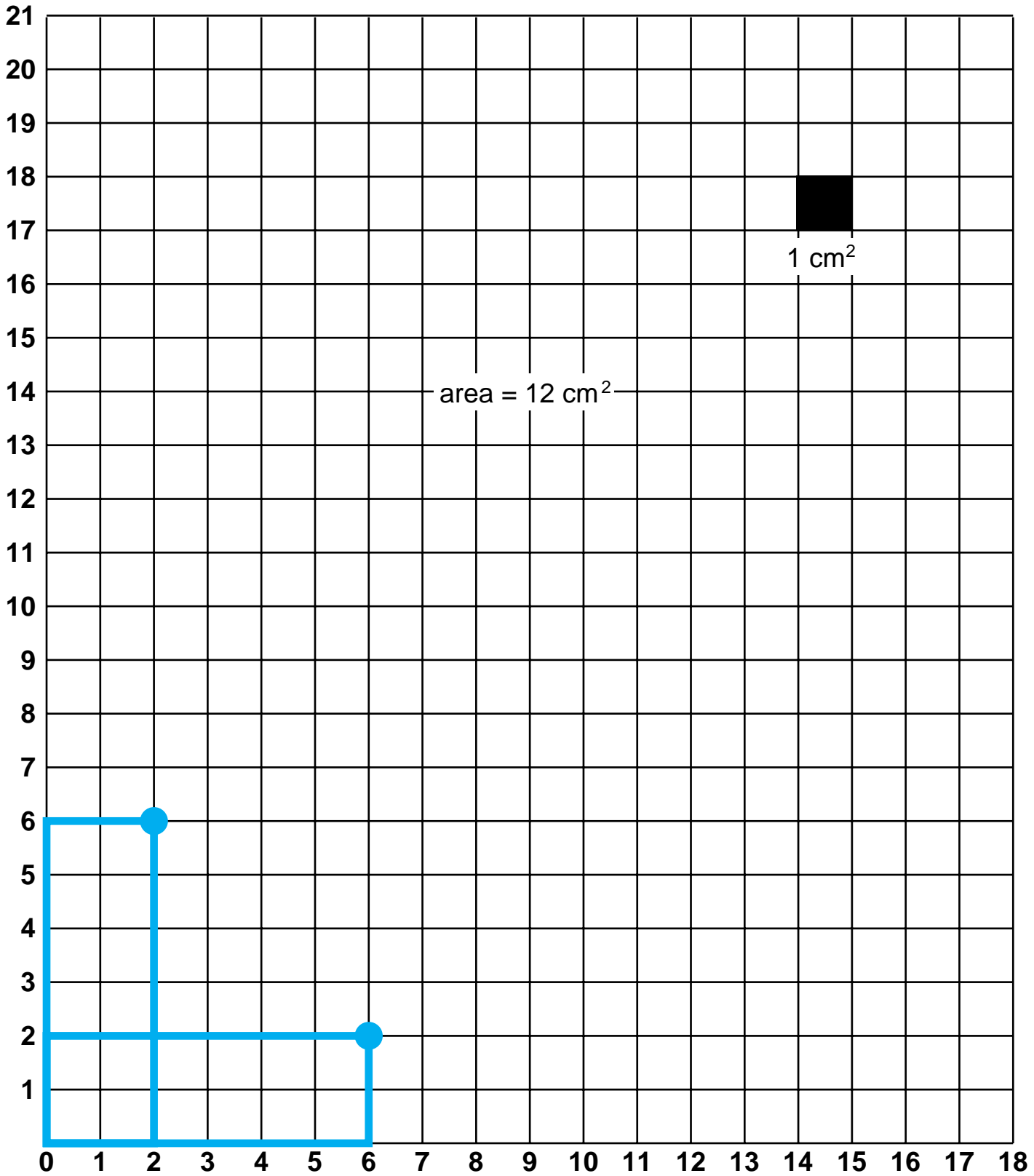
Name _____

Color and cut out sev eral rectangles with perimeter 20 cm.
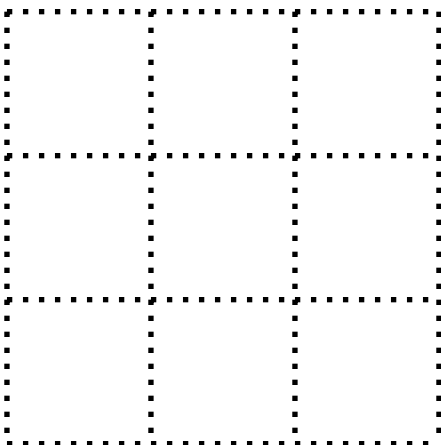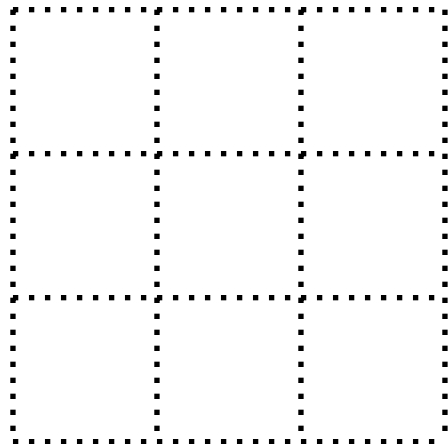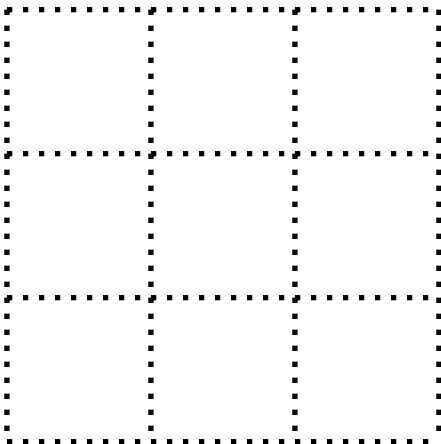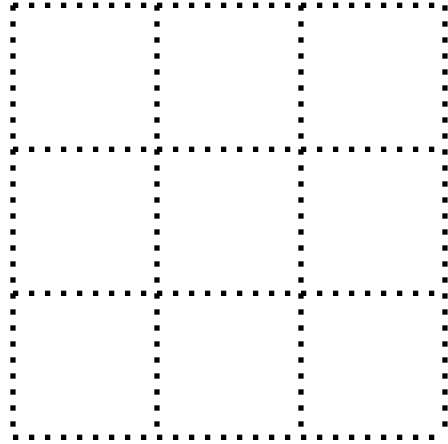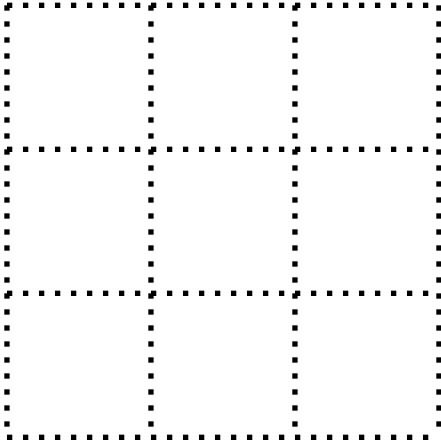
1 cm

Name _____

perimeter = 20 cm

1 cm

Name _____

Try to find the highest score for a tracing in this grid.

HIGHEST
SCORE

Name _____

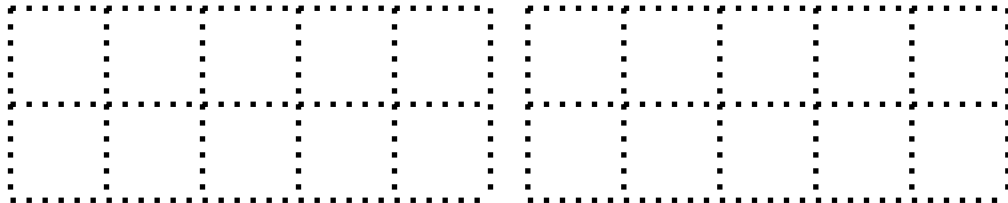Try to find the highest score for a tracing in this grid.
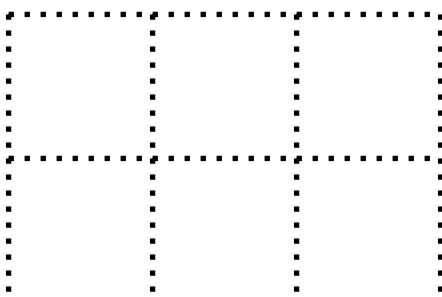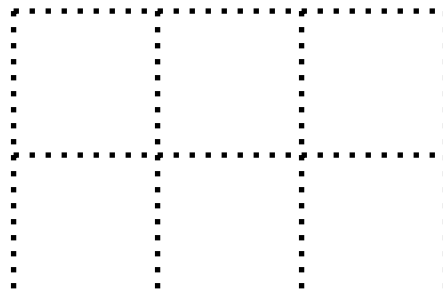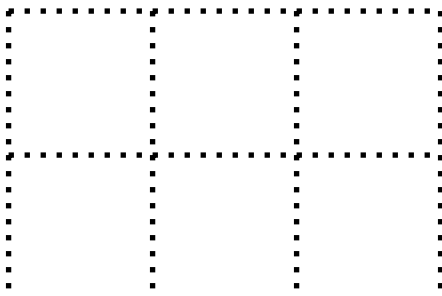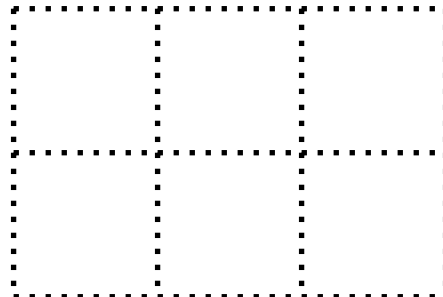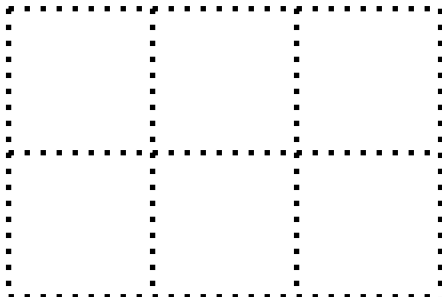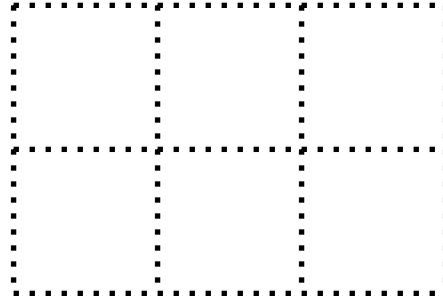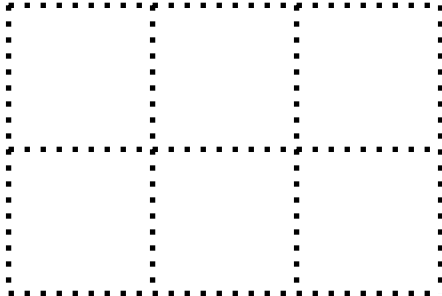
HIGHEST
SCORE

Name _____

Try to find the highest score for a tracing in these grid pictures.
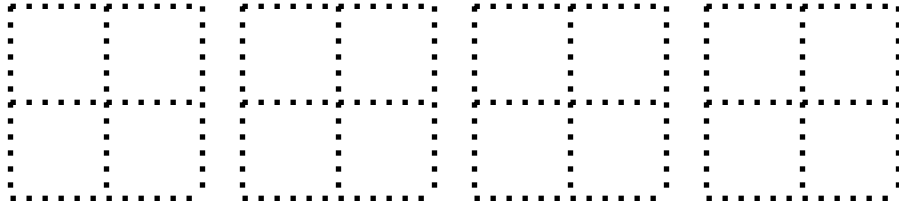
HIGHEST SCORE
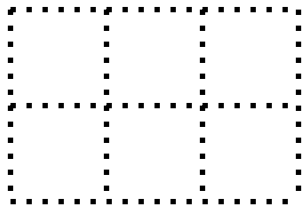
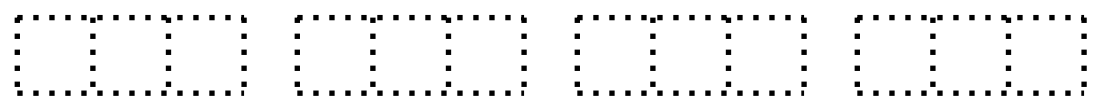**HIGHEST SCORE**

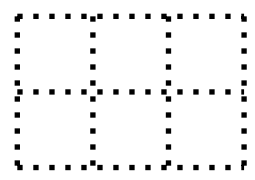Check your answer from Worksheet G12**
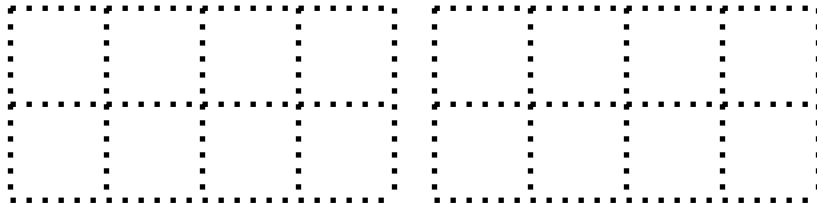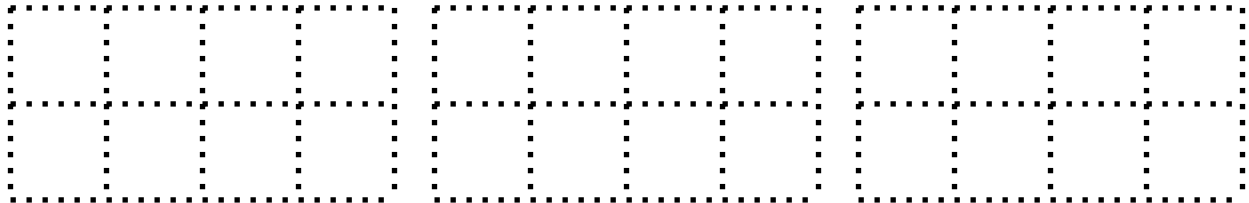
HIGHEST SCORE
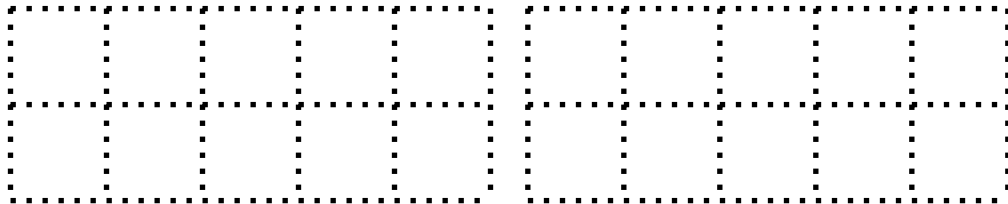
HIGHEST SCORE

Name _____

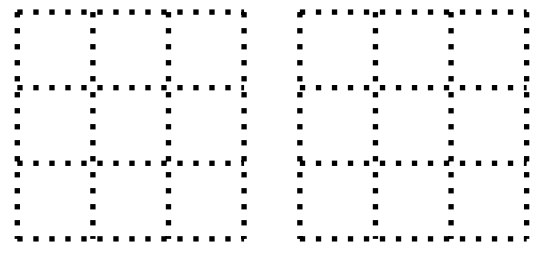Try to find the highest score for a tracing in these grid pictures.

HIGHEST SCORE

HIGHEST SCORE
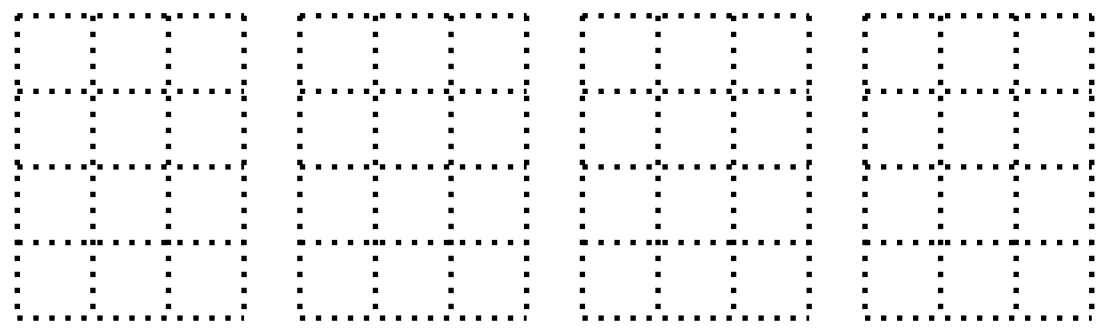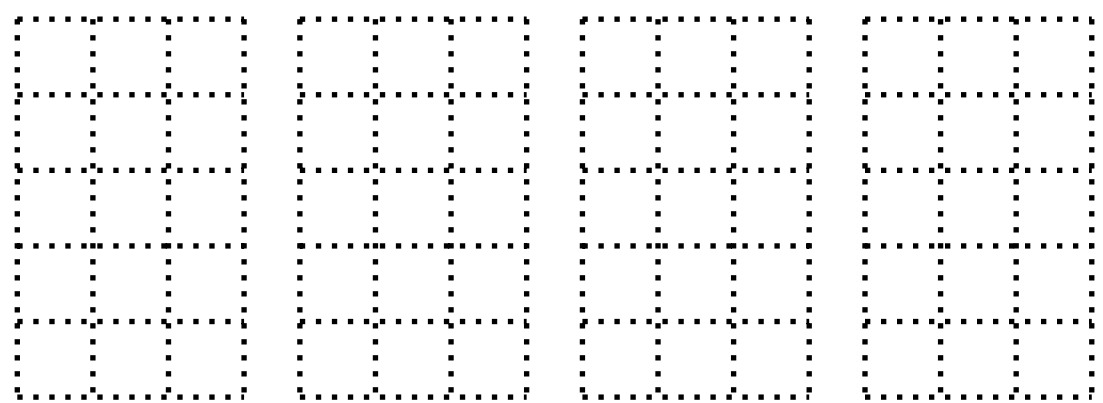
Check your answer from Worksheet G12**

HIGHEST SCORE

Check your answer from Worksheet G12*

HIGHEST SCORE

HIGHEST SCORE

Name _____

What number is on the Minicomputer?

(10) = _____

(10) • = _____

• (10) = _____

• (10) • = _____

• • (10) = _____

• (10) • = _____

• (10) = _____

• (10) • = _____

(10) = _____

(10) (10) = _____

(10) •
• • = _____

Name _____

Put each number on the Minicomputer. Use at least one
⑩-checker for each number.

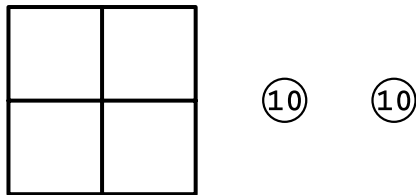20 =

30 =

21 =

34 =

40 =

70 =

42 =

79 =

45 =

100 =

Name _____

Cobb is a secret number.

Clue 1
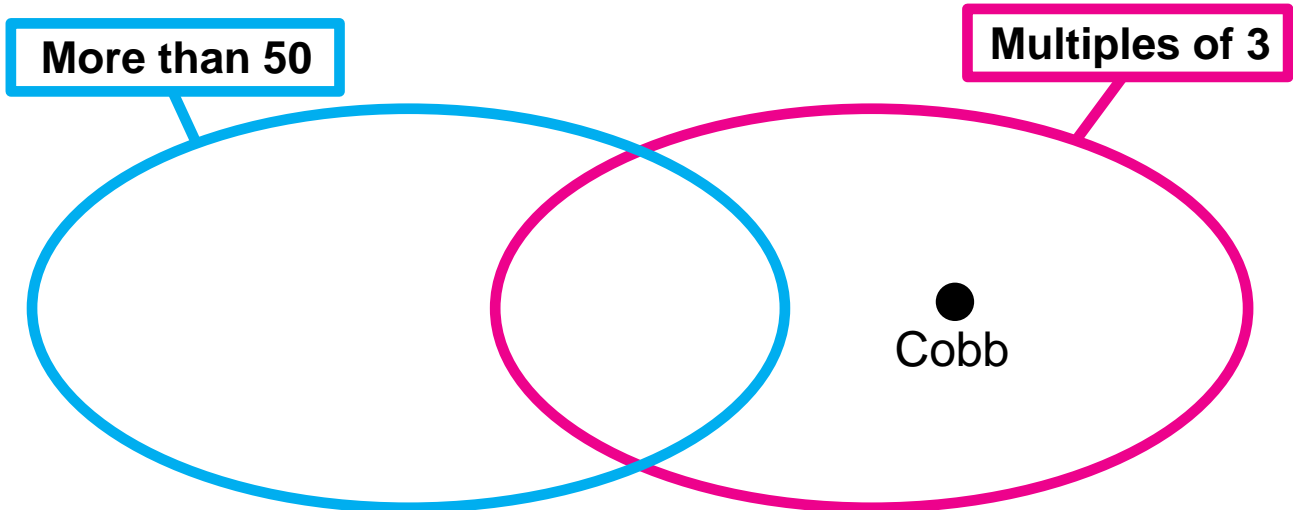
Cobb can be put on the ones board of the Minicomputer with exactly two ⑩-checkers.

⑩   ⑩

Cobb could be _____, _____, _____, _____, _____, _____, _____, _____, _____, and _____.
_____

Clue 2

More than 50

Multiples of 3

• Cobb

Who is Cobb? _____
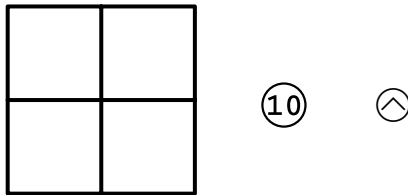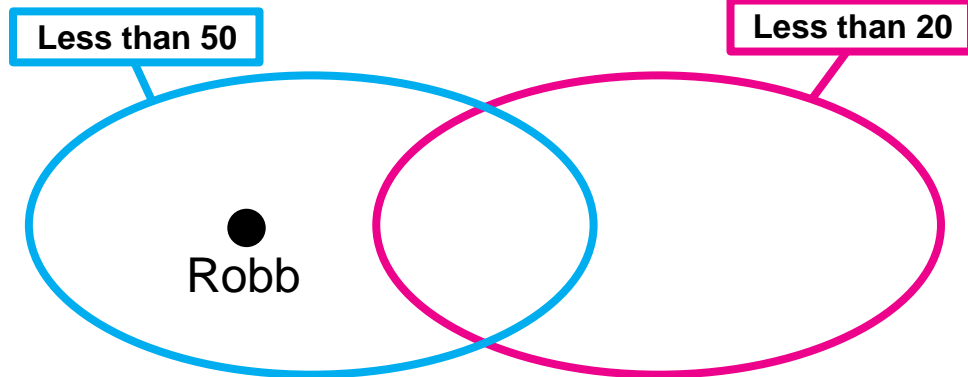
Robb is a secret number.

Clue 1   Robb can be put on the ones board of the Minicomputer with one ⑩-checker and one negative checker.

⑩   ⌃

Robb could be ____, ____, ____, ____, ____, ____, ____,
____, ____, ____, ____, ____, ____, ____, ____, and ____.

Clue 2

Less than 50

Less than 20

● Robb
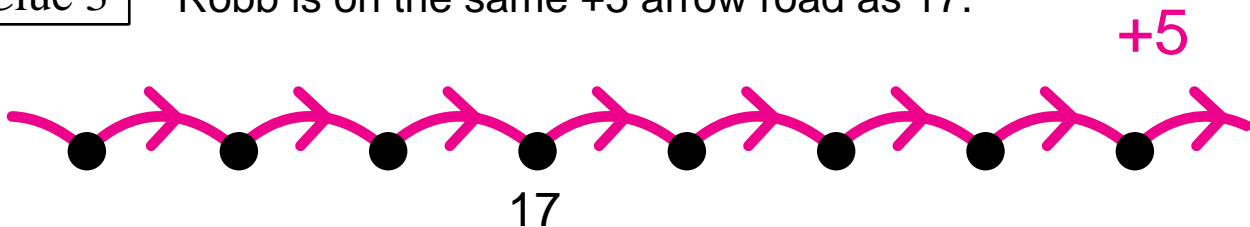
Robb could be _____, _____, _____, and _____.

Clue 3   Robb is on the same +5 arrow road as 17.

+5

17

Who is Robb? _____

Name _____

Mo

+2   **+3**

Me	Mo	Mu

Me

Mu