



BROAD HORIZON
— T U I T I O N —

11+ Tuition

Year 3

Week 34

Answers

Name: _____

Date: _____

Starter Task – Quick Revision

Task 1 - spelling NOTE TO TEACHER

Read out these words to students and read each one twice.

- 1) Minute**
- 2) Probably**
- 3) Interest**
- 4) Therefore**
- 5) Decide**

Task 2 – Definitions NOTE TO TEACHER

Read out the words and give time for students to define the first one before saying the next one

Interest: wanting to know or learn about something or someone

Probably: likely to happen or be true.

Task 3 – Maths

1) $546 \times 9 = 4,614$

2) $6375 \div 3 = 2,125$

3) Round 4598 to the nearest 100 4600

4) $9834 \times 7 = 68,838$

5) $2498 \div 4 = 624r2$

6) Round 3995 to the nearest 10 4000

7) $4309 \times 4 = 17,216$

8) $2387 \div 8 = 298 r3$

9) Round 39974 to the nearest 100 40000

Task 4 - times tables

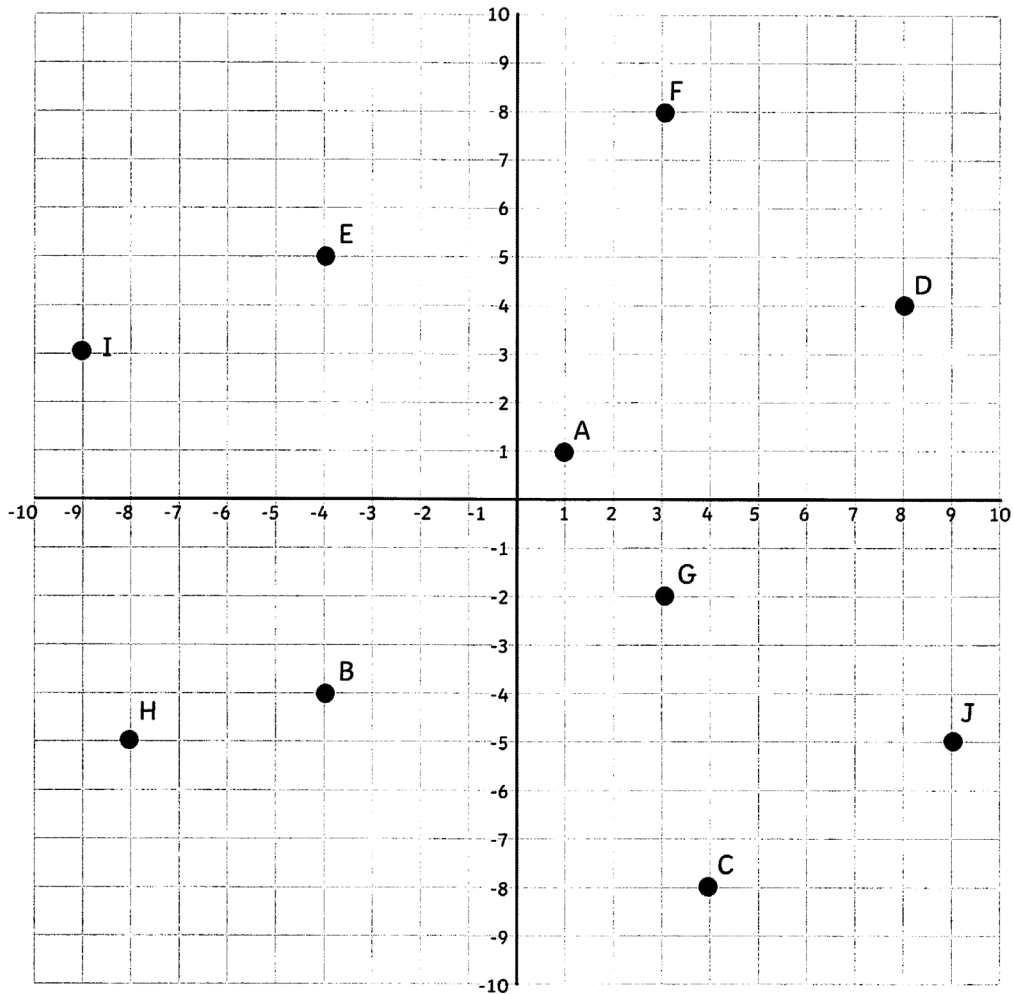
You will have 45 seconds to complete the table below from memory.

1) $12 \times 12 =$ 144	2) $12 \times 8 = 96$	3) $12 \times 11 =$ 132
4) $12 \times 7 = 84$	5) $3 \times 12 = 36$	6) $12 \times 12 =$ 144
7) $11 \times 12 =$ 132	8) $12 \times 11 =$ 132	9) $11 \times 2 = 22$
10) $11 \times 11 =$ 121	11) $11 \times 4 = 44$	12) $2 \times 11 = 22$
13) $9 \times 11 = 99$	14) $11 \times 11 =$ 121	15) $6 \times 11 = 66$

Mental Arithmetic

Paper 19	Answer	Paper 20	Answer
1. What is half of 46?	23	1. What is half of 48?	24
2. What is a quarter of 24?	6	2. What is a quarter of 16?	4
3. What is one tenth of 40?	4	3. What is one tenth of 50?	5
4. What is one tenth of 80?	8	4. What is one tenth of 90?	9
5. What number is half way between 0 and 1?	$\frac{1}{2}$	5. What number is half way between 9 and 10?	$9\frac{1}{2}$
6. What number is half way between 0 and $\frac{1}{2}$?	$\frac{1}{4}$	6. What number is half way between $9\frac{1}{2}$ and 10?	$9\frac{3}{4}$
7. Which is bigger $\frac{1}{10}$ or $\frac{1}{2}$?	$\frac{1}{2}$	7. Which is bigger $\frac{1}{4}$ or $\frac{1}{5}$?	$\frac{1}{4}$
8. What is half of 60?	30	8. What is half of 64?	32
9. Sharon had a jar of 36 sweets. She ate half of them. How many did she eat?	18	9. Kate had a jar of 42 sweets. She ate half of them. How many did she eat?	21
1. What is half of 202?	101	1. What is half of 110?	55

What Are the Coordinates? Answers



A = (1, 1)

F = (3, 8)

B = (-4, -4)

G = (3, -2)

C = (4, -8)

H = (-8, -5)

D = (8, 4)

I = (-9, 3)

E = (-4, 5)

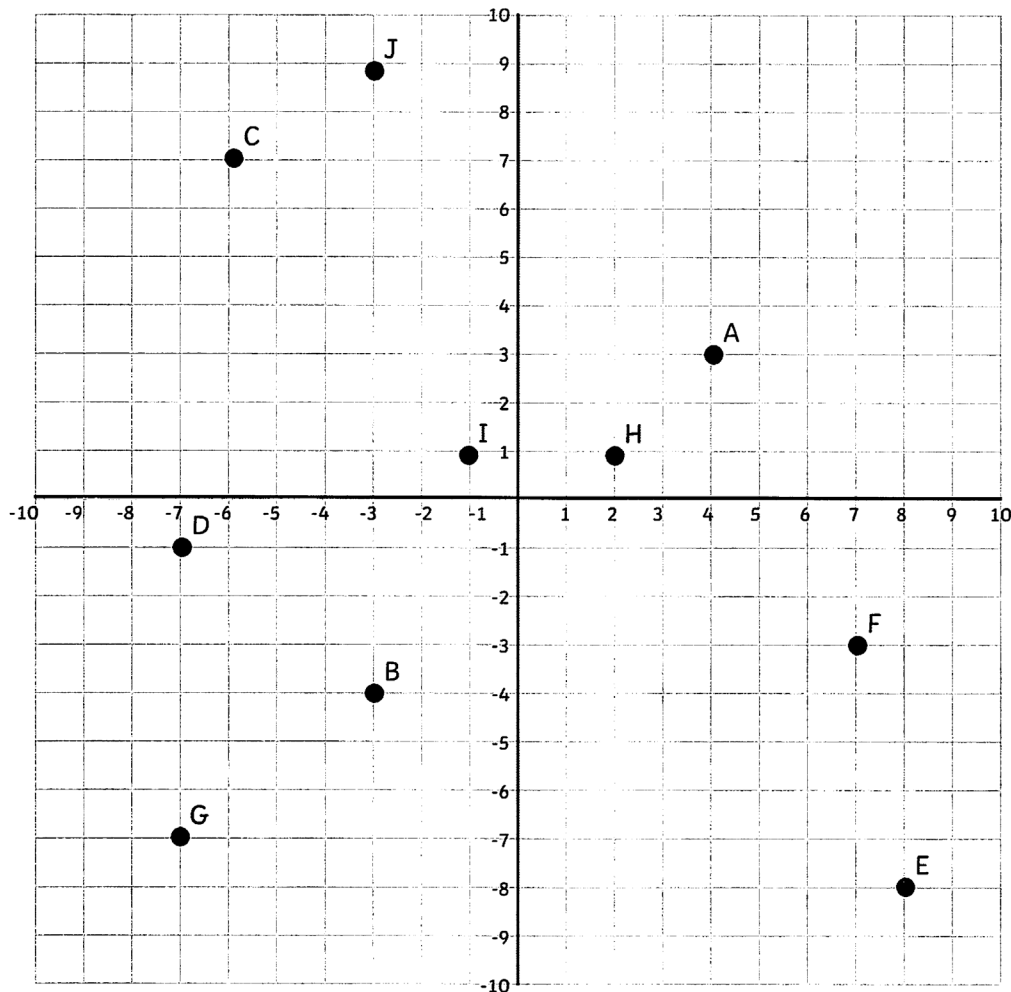
J = (9, -5)

Challenge:

Point E moves 6 spaces to the right and 5 places down. What are its new coordinates?

(2, 0)

What Are the Coordinates? Answers



Write the coordinates of each point.

$$A = (4, 3)$$

$$B = (-3, -4)$$

$$C = (-6, 7)$$

$$D = (-7, -1)$$

$$E = (8, -8)$$

Now, plot these new points on the grid.

$$F = (7, -3)$$

$$G = (-7, -7)$$

$$H = (2, 1)$$

$$I = (-1, 1)$$

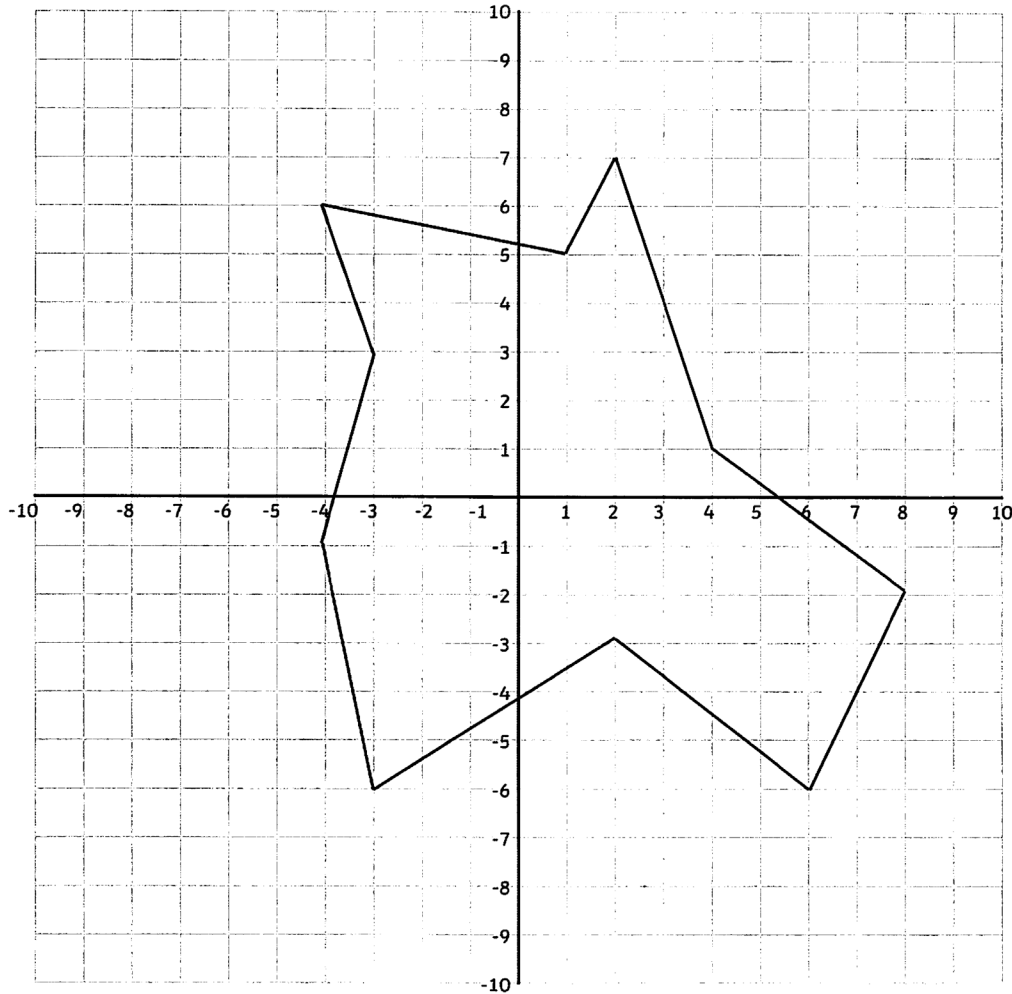
$$J = (-3, 9)$$

Challenge:

Point B translates to the coordinates $(-8, 6)$. What directions has it moved?

5 left, 10 up.

What Are the Coordinates? Answers



Moving clockwise around the shape, write the coordinates of the points on the shape. The first one has been done for you.

- | | | |
|----------|----------|---------|
| (1, 5) | (2, 7) | (4, 1) |
| (8, -2) | (6, -6) | (2, -3) |
| (-3, -6) | (-4, -1) | (-3, 3) |
| | (-4, 6) | |

Now, draw your own 6-sided shape and write the coordinates of its points below.

Answers will vary

Challenge:

One of the coordinates can be moved 7 spaces right and 2 down to be in the same place as another coordinate. Which coordinate is this and where does it move to?

(-3, 3) can be moved to (4, 1)

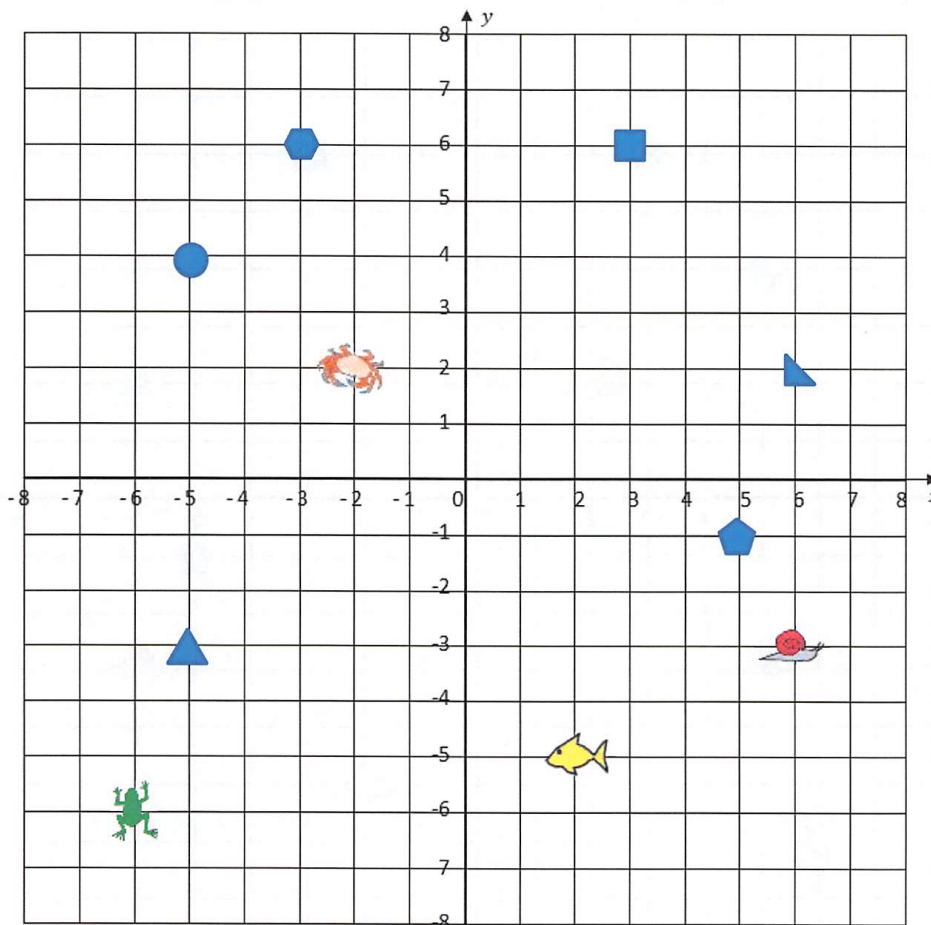
Name _____

Date _____



FIND THE COORDINATES 1 ANSWERS

Use the coordinate grid to work out the coordinates below.



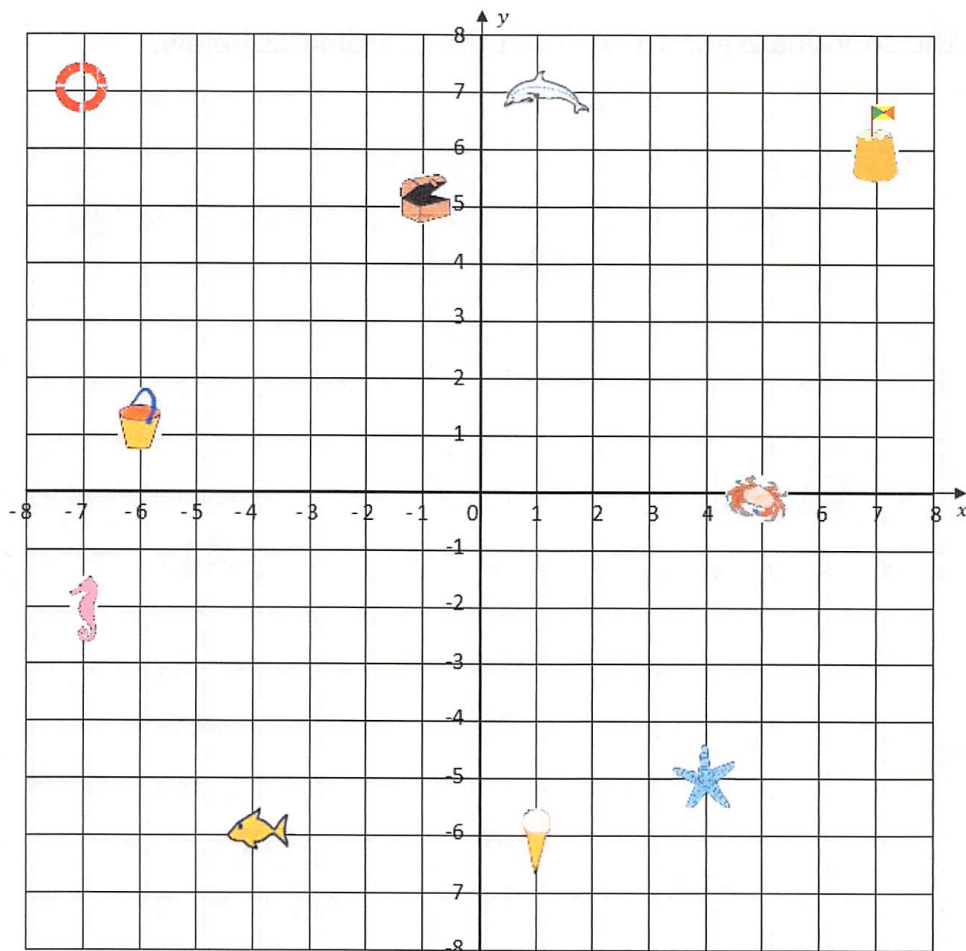
- | | |
|----------------------------|------------------------------------|
| 1) Circle $(-5, 4)$ | 2) Square $(3, 6)$ |
| 3) Hexagon $(-3, 6)$ | 4) Frog $(-6, -6)$ |
| 5) Fish $(2, -5)$ | 6) Pentagon $(5, -1)$ |
| 7) Right triangle $(6, 2)$ | 8) Equilateral triangle $(-5, -3)$ |
| 9) Crab $(-2, 2)$ | 10) Snail $(6, -3)$ |

Name _____

Date _____



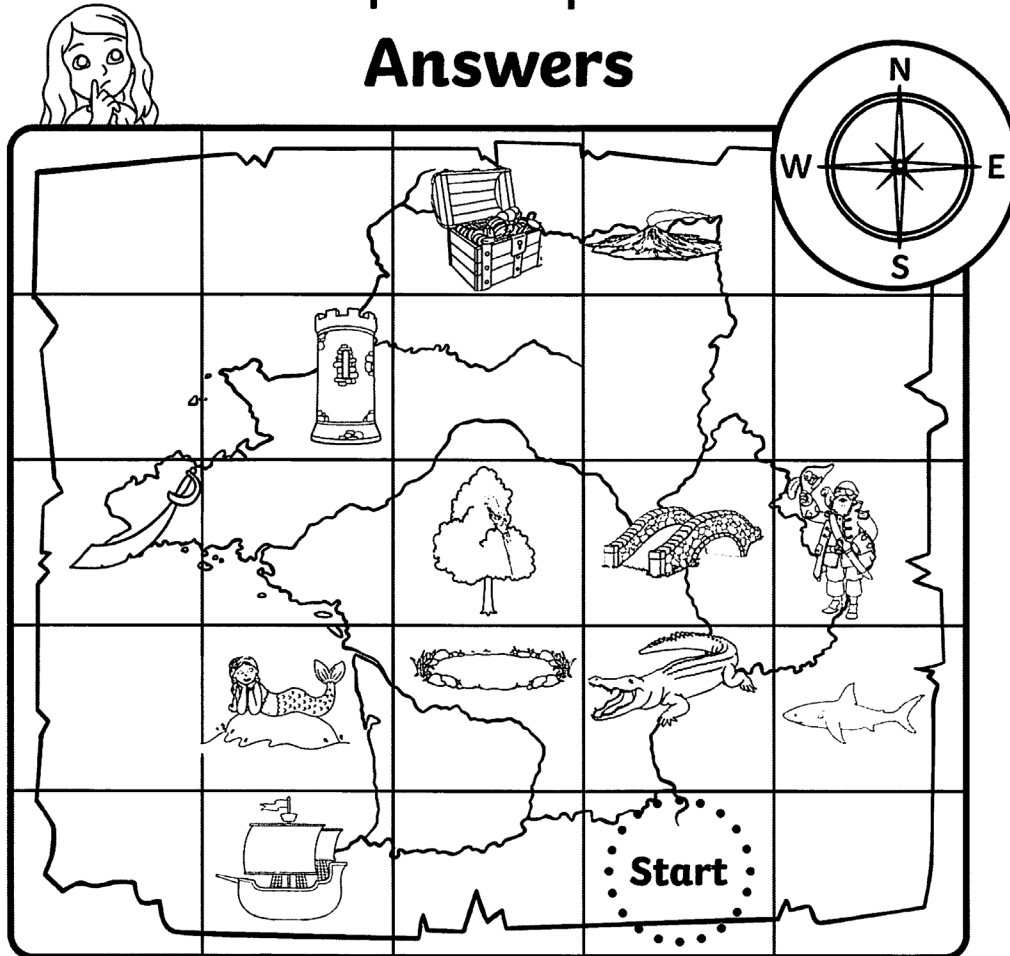
FIND THE COORDINATES 2 ANSWERS



- | | |
|----------------------|-----------------------|
| 1) Dolphin (1, 7) | 2) Sandcastle (7, 6) |
| 3) Chest (-1, 5) | 4) Bucket (-6, 1) |
| 5) Fish (-4, -6) | 6) Starfish (4, -5) |
| 7) Seahorse (-7, -2) | 8) Crab (5, 0) |
| 9) Ice cream (1, -6) | 10) Life ring (-7, 7) |

Pirate Map Compass Points

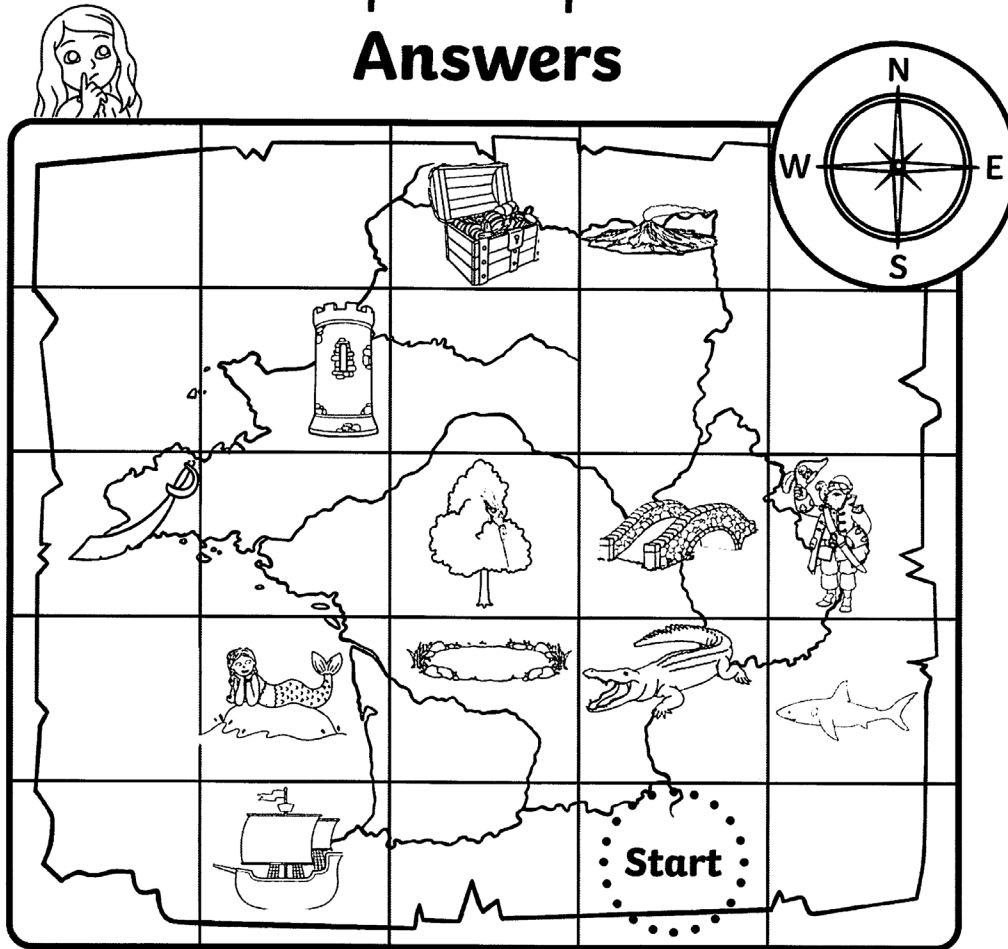
Answers



From the start, go north 1 square. Where are you now?	crocodile
From the start, go west 2 squares. Where are you now?	pirate ship
From the mermaid, go east 3 squares. Where are you now?	shark
From the volcano, go south 2 squares. Where are you now?	bridge
Start at the pond. How do you get to the treasure?	Go north 3 squares

Pirate Map Compass Points

Answers

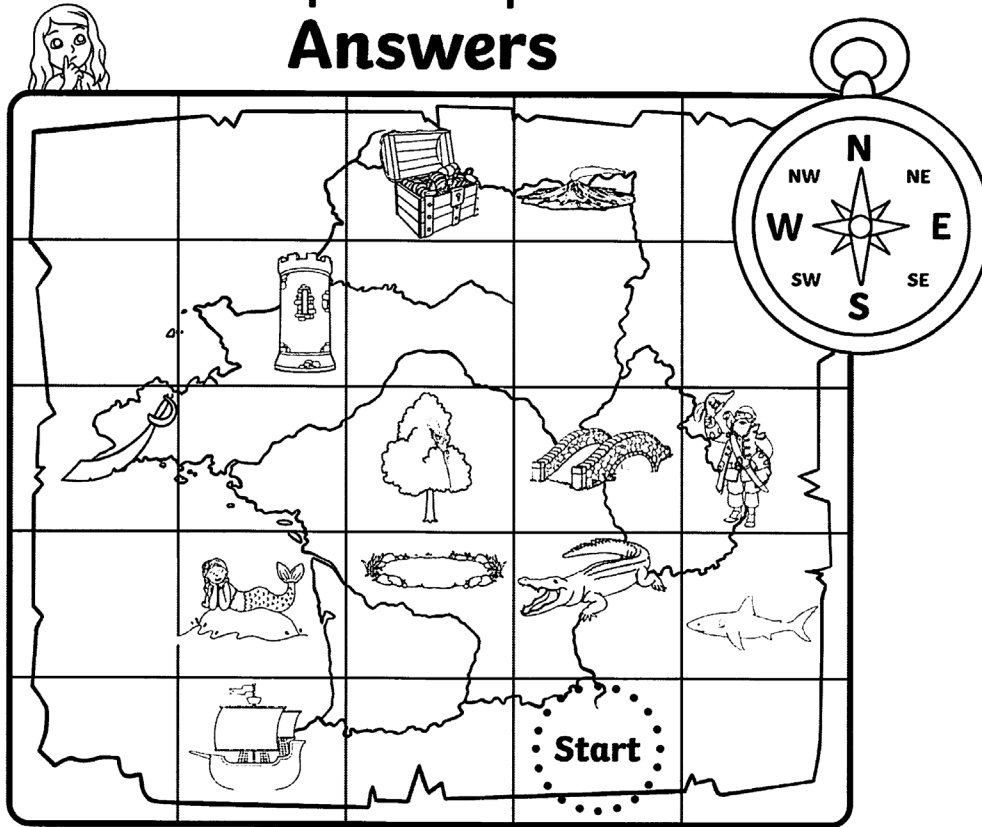


From the start, go west 2 squares and north 3 squares. Where are you now?	tower
From the start, go east 1 square and north 2 squares. Where are you now?	pirate
From the volcano, go south 2 squares and west 3 squares. Where are you now?	sword
From the tower, go south 2 squares and east 3 squares. Where are you now?	shark
Using only the directions north, south, east or west, how could you get from the pirate ship to the treasure?	Go east 1 square and north 4 squares. Go north 4 squares and east 1 square.



Pirate Map Compass Points

Answers



From the start, go north 2 squares and west 1 square. Which animal can you see?	parrot
Start at the volcano. Travel south 2 squares and south-east 1 square. What can you see?	shark
Start at the pirate. Travel west 2 squares and north-west 1 square. What can you see?	tower
From the pond, travel north 2 squares and north-east 1 square. What can you see?	volcano
Name three different ways that the pirate could get to the treasure.	Go north 2 squares and west 2 squares. Go west 2 squares and north 2 squares. Go north-west 2 squares.



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World Oceans Compass Activity Answers



1. From the start, go east 2 squares. Which sea creature do you meet?
cuttlefish
2. From the narwhal, go south 3 squares. Which sea creature do you meet?
angelfish
3. From the cuttlefish, go north 3 squares. Which sea creature do you meet?
lobster
4. From the angel fish, go east 1 square. Which sea creature do you meet?
clownfish
5. Start at the humpback whale. How do you get to the green sea turtle?
Go south 2 squares.



1. From the start, go east 7 squares . Which sea creature do you meet?
green sea turtle
2. From the start, go north 2 squares and east 2 squares. Which sea creature do you meet?
manatee
3. From the narwhal, go west 2 squares and south 1 square. Which sea creature do you meet?
lobster
4. From the turtle, go west 3 squares and north 1 square. Which sea creature do you meet?
angelfish
5. Start at the humpback whale. How do you get to the narwhal?
Possible answers:
Go west 3 squares and north 2 squares.
Go north 2 squares and west 3 squares.



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World Oceans Compass Activity Answers

★★★

1. From the start, go east 7 squares and north 2 squares. Which sea creature do you meet?
humpback whale
2. From the start, go north 3 squares and east 2 squares. Which sea creature do you meet?
lobster
3. Start at the clownfish. How do you get to the lobster?
Go west 3 squares and north 2 squares or go north 2 squares and west 3 squares.
4. Start at the humpback whale. Go 1 square to the west, then 1 square to the south-west. Which creature do you meet?
clownfish
5. Describe a way you could get to the manatee using any direction on the compass.
Possible answers:
Go east 2 squares, then north two squares.
Go north 2 squares, then east two squares.
Go north-east 2 squares.

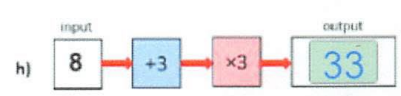
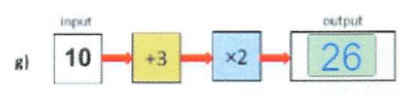
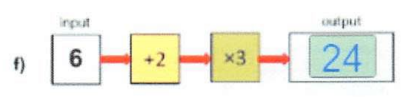
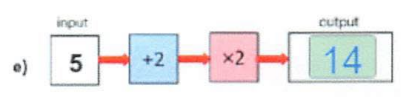
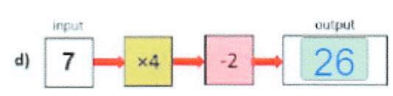
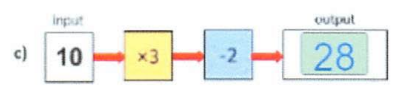
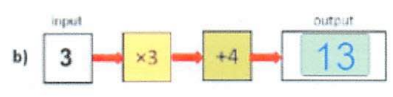
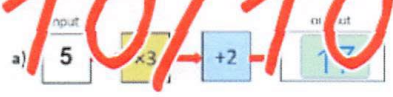


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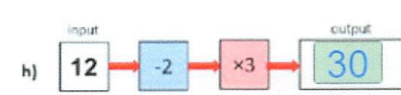
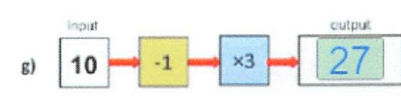
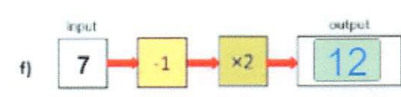
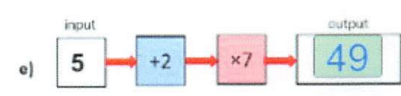
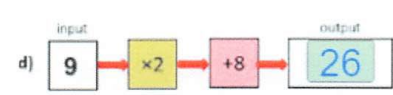
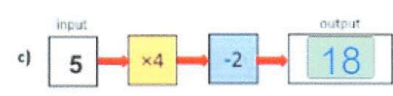
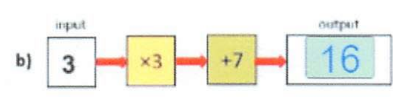
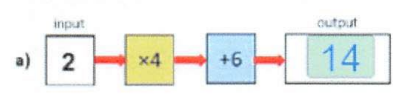


10/10

Question 1



Question 2



A

Complete the input/output table for each function machine.

1) $\times 2 \rightarrow + 4$

Input	Output
2	8
3	10
5	14
11	26

2) $- 5 \rightarrow \div 3$

Input	Output
17	4
23	6
26	7
47	14

B

Complete the input/output table for each function machine.

1) $\times 4 \rightarrow - 7$

Input	Output
4	9
7	21
8	25
13	45

2) $\div 3 \rightarrow + 5$

Input	Output
15	10
36	18
12	9
51	22

C

Complete the table.

1) $\div 2 \rightarrow - 4 \rightarrow \times 5$

Input	Output
14	15
6	-5
28	50
-8	-40

Complete the function machine.

2) $\times 3 \rightarrow - 9$

Input	Output
3	0
7	12
11	24

English Comprehension

Clues to circle:

What the characters are doing (shopping) – trolley full of cereals, 'umpteenth trips', 'whole year's pocket money'

Where they are (in a supermarket) – shelves, check-out and trolley

Why (want a free lion) – 'free lion' sign and '100 coupons' poster

1. Dan and his brother bought boxes and boxes of cereal. I know this because it says they 'spent a whole year's pocket money on cereal' and in the picture their trolley is full of packets of cornflakes.
2. The boys bought trolley loads of cornflake packets because they wanted a 'free lion'.
3. Dan and his brother had to collect '100 coupons' from the cornflakes to get a free lion. I know this because it says it on the poster by the supermarket check-out.

Children's answers will vary.

Example detective question: Did the boys go shopping a lot over the year? How do you know?

Example answer: Yes, the boys went shopping a lot over the year because it says they went on 'umpteenth trips to the supermarket'.

Correct the spelling mistake

Year 3 and 4 Correct the Spelling Mistake (5) Answers

The spelling mistakes in these sentences have been circled. Write the correct spelling for each circled word in the box.

1. What time does the train arrivve?
2. In a ressent survey, it was found that cats prefer fish to cat food.
3. Although it was bedtime, Lily wasn't tired.
4. The boy stood in the sentre of the circle.
5. We all live on planet Errth.
6. Ben tripped Halima up on purpurse.
7. My brother made a promiss not to annoy me again.
8. I accidentilly trod on my dog's tail.

arrive
recent
Although
centre
Earth
purpose
promise
accidentally

Each sentence below has one word that is incorrect. Write the correct spelling of the word in the box.

1. Dad was too bisy to go to the shops.
2. Jim ocasionally played football.
3. I measured the lennth of the table.
4. We did varius different sports.
5. The pirates buried the treasure on an illand.
6. We planted pottaytoes, carrots and peas.
7. Lizzy wanted to be famuss when she grew up.
8. The woman bought a particular kind of perfume.

busy
occasionally
length
various
island
potatoes
famous
particular



Section 3 — Rotate the Figure

1) A

The figure has been rotated 90 degrees clockwise. In option B, the grey arrow is positioned incorrectly. Option C has the wrong shading. Option D is the wrong shape.

2) D

The figure has been rotated 270 degrees clockwise (or 90 degrees anticlockwise). Options A and B have the wrong shading. Option C is the wrong shape.

3) C

The figure has been rotated 180 degrees. Options A and B have the wrong shading and option B has both claws in the wrong positions. In option D, one claw has been reflected upwards.

4) D

The figure has been rotated 90 degrees clockwise. Option A has been reflected across. Options B and C have the wrong shapes inside the circle.

Section 4 — Complete the Pair

1) B

A straight line is drawn to connect the two musical notes.

2) A

The small shape gets larger and moves to the back. The large shape gets smaller and moves to the middle of the new large shape.

3) C

The white rectangles on both ends of the figure are removed.

4) B

A sideways reflection of the butterfly's left wing is added to the right-hand side of the butterfly to make its right wing (so that the butterfly becomes symmetrical).

Times Table Practice

You will have 150 seconds to complete the table below from memory.

Times Tables Worksheet Answers

up to 12 x 12

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1) $7 \times 11 = 77$

16) $7 \times 7 = 49$

31) $4 \times 6 = 24$

2) $2 \times 5 = 10$

17) $1 \times 3 = 3$

32) $4 \times 7 = 28$

3) $8 \times 11 = 88$

18) $7 \times 2 = 14$

33) $4 \times 3 = 12$

4) $7 \times 3 = 21$

19) $3 \times 5 = 15$

34) $7 \times 7 = 49$

5) $12 \times 2 = 24$

20) $2 \times 2 = 4$

35) $12 \times 7 = 84$

6) $3 \times 5 = 15$

21) $11 \times 11 = 121$

36) $5 \times 7 = 35$

7) $5 \times 12 = 60$

22) $8 \times 8 = 64$

37) $2 \times 8 = 16$

8) $12 \times 4 = 48$

23) $11 \times 7 = 77$

38) $10 \times 12 = 120$

9) $3 \times 4 = 12$

24) $9 \times 6 = 54$

39) $11 \times 5 = 55$

10) $3 \times 7 = 21$

25) $9 \times 12 = 108$

40) $3 \times 2 = 6$

11) $4 \times 10 = 40$

26) $12 \times 2 = 24$

41) $12 \times 1 = 12$

12) $11 \times 10 = 110$

27) $5 \times 5 = 25$

42) $6 \times 11 = 66$

13) $12 \times 9 = 108$

28) $10 \times 5 = 50$

43) $2 \times 10 = 20$

14) $6 \times 6 = 36$

29) $7 \times 9 = 63$

44) $1 \times 6 = 6$

15) $4 \times 11 = 44$

30) $6 \times 9 = 54$

45) $2 \times 11 = 22$

If you've achieved below 40/45 revisit all your times tables before you move on to the next worksheet

You will have 150 seconds to complete the table below from memory.

Times Tables Worksheet Answers

up to 12 x 12

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- | | | |
|--------------------------|------------------------|--------------------------|
| 1) 5 x 10 = 50 | 16) 3 x 6 = 18 | 31) 2 x 1 = 2 |
| 2) 10 x 3 = 30 | 17) 6 x 5 = 30 | 32) 6 x 2 = 12 |
| 3) 7 x 6 = 42 | 18) 8 x 10 = 80 | 33) 6 x 1 = 6 |
| 4) 4 x 12 = 48 | 19) 2 x 6 = 12 | 34) 9 x 9 = 81 |
| 5) 3 x 1 = 3 | 20) 1 x 10 = 10 | 35) 11 x 10 = 110 |
| 6) 3 x 9 = 27 | 21) 3 x 7 = 21 | 36) 4 x 7 = 28 |
| 7) 10 x 2 = 20 | 22) 12 x 1 = 12 | 37) 9 x 11 = 99 |
| 8) 12 x 5 = 60 | 23) 9 x 2 = 18 | 38) 5 x 7 = 35 |
| 9) 7 x 11 = 77 | 24) 3 x 7 = 21 | 39) 3 x 11 = 33 |
| 10) 6 x 10 = 60 | 25) 7 x 8 = 56 | 40) 9 x 4 = 36 |
| 11) 2 x 3 = 6 | 26) 9 x 2 = 18 | 41) 5 x 12 = 60 |
| 12) 5 x 12 = 60 | 27) 11 x 1 = 11 | 42) 1 x 1 = 1 |
| 13) 12 x 11 = 132 | 28) 4 x 6 = 24 | 43) 10 x 10 = 100 |
| 14) 2 x 2 = 4 | 29) 5 x 4 = 20 | 44) 12 x 1 = 12 |
| 15) 11 x 2 = 22 | 30) 9 x 2 = 18 | 45) 3 x 3 = 9 |

If you've achieved below 40/45 revisit all your times tables before you move on to the next worksheet

You will have 150 seconds to complete the table below from memory.

Times Tables Worksheet Answers

up to 12 x 12

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- | | | |
|--------------------------|--------------------------|--------------------------|
| 1) 10 x 10 = 100 | 16) 3 x 11 = 33 | 31) 9 x 2 = 18 |
| 2) 11 x 1 = 11 | 17) 10 x 7 = 70 | 32) 8 x 6 = 48 |
| 3) 9 x 6 = 54 | 18) 12 x 3 = 36 | 33) 10 x 10 = 100 |
| 4) 6 x 1 = 6 | 19) 4 x 9 = 36 | 34) 8 x 10 = 80 |
| 5) 7 x 3 = 21 | 20) 8 x 12 = 96 | 35) 4 x 2 = 8 |
| 6) 10 x 8 = 80 | 21) 2 x 9 = 18 | 36) 6 x 12 = 72 |
| 7) 5 x 9 = 45 | 22) 8 x 6 = 48 | 37) 5 x 5 = 25 |
| 8) 11 x 4 = 44 | 23) 11 x 12 = 132 | 38) 3 x 3 = 9 |
| 9) 5 x 9 = 45 | 24) 12 x 6 = 72 | 39) 3 x 9 = 27 |
| 10) 7 x 10 = 70 | 25) 7 x 10 = 70 | 40) 7 x 3 = 21 |
| 11) 10 x 11 = 110 | 26) 2 x 10 = 20 | 41) 4 x 4 = 16 |
| 12) 5 x 3 = 15 | 27) 2 x 6 = 12 | 42) 10 x 1 = 10 |
| 13) 6 x 1 = 6 | 28) 11 x 9 = 99 | 43) 2 x 5 = 10 |
| 14) 5 x 5 = 25 | 29) 3 x 0 = 0 | 44) 3 x 10 = 30 |
| 15) 4 x 6 = 24 | 30) 6 x 8 = 48 | 45) 2 x 3 = 6 |

If you've achieved below 40/45 you should revisit all your times tables and learn them again