

Year 7 Mixed Practice Topics: 1 - 3



Mark Scheme and revision:
www.addvancemaths.com/year7/

Name: _____

Teacher: _____

Score: _____

/104

%

Instructions:

- Use a black or blue ballpoint pen.
- Answer all the questions in the spaces provided.
- You will need a ruler, protractor, pencil, and compass
- **Information:**
- The marks for each question are shown in brackets.
- The total mark available for this exam is 60.
- **Advice :**
- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Q.	Total Marks:
1.)	/19
2.)	/19
3.)	/22
4.)	/32
5.)	/12

(Topic 1: Integers and BIDMAS)

1. Calculate the following:

(a) $16 - 37$

.....  1

(b) $5 + (-35)$

(c) $17 - 39 + (-55)$


.....  2

(d) $(-11) - (-10) + (-9)$

.....  3


.....  3

(e) $(-5) \times (-4)$

.....  2

(f) $(0) \times (-9)$

(g) $(4 \times -1) \times (-2) \times (0)$

.....  2

(h) $(-12) \times (-7) \times (-10)$


.....  3

.....  3

(Mixed Topic 1-2)


2. Calculate the following:

(a) $(-11) \div (-11)$

.....  1

(b) $(56) \div (-7)$

(c) $(-30) \div 5 + 12 \div (-4)$

.....  2

(d) $(-48) \div 6 + (-18) \div (-3)$

.....  3

.....  3

If $a = 6$ and $b = -7$, evaluate the following expression leaving your answer in its simplest form:

(e) $2a - b$

.....  2

(f) $b^2 + 8a$

(g) $3a^2 - 7ab$

.....  2

(h) $(b^2 + 8a) \times 5$

.....  3

.....  3

(Topic 2: Introduction to Algebra)

3. If $a = 5$, $b = 1.25$, and $c = 8$, evaluate the following expression leaving your answer in its simplest form:

(a) $3a + 4b + 5c$


.....  3

(b) $2(a^2 + c)$

(c) $a \times c - 100b$

.....  3


(d) $10a - 6c - \frac{a}{4}$

.....  3

.....  3

If $e = 10$, $b = 4$, and $c = 2$, evaluate the following expression leaving your answer in its simplest form:

(e) ebc^2

.....  2

(f) $(10cb) \times 20$

(g) $1000e \div 100b \div 10c$

.....  2

(h) $ebc + eb - \frac{cb}{2}$

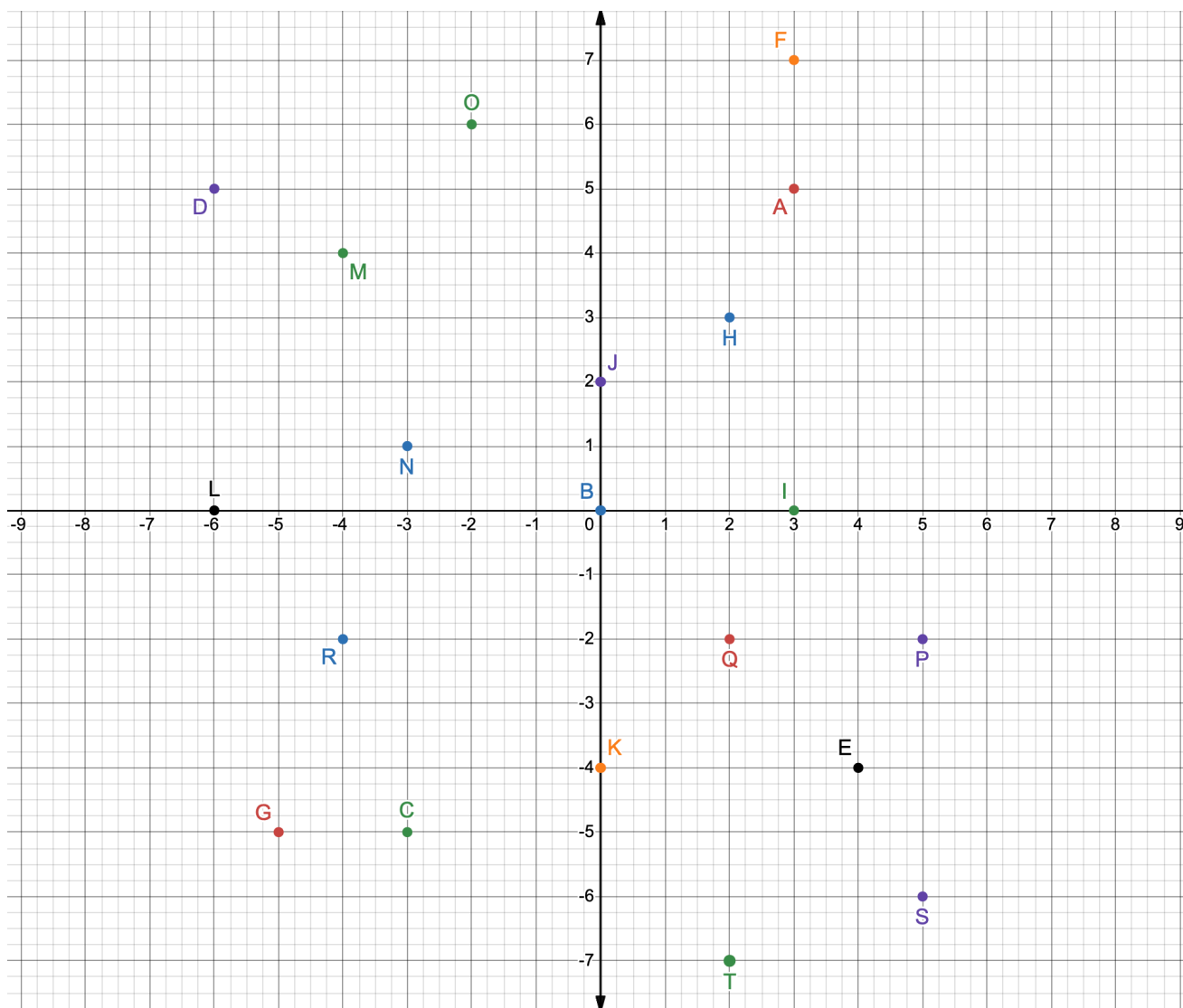
.....  3

.....  3

(Topic 3: Symmetry and Coordinates)

4. Write the Coordinates of the Following points:

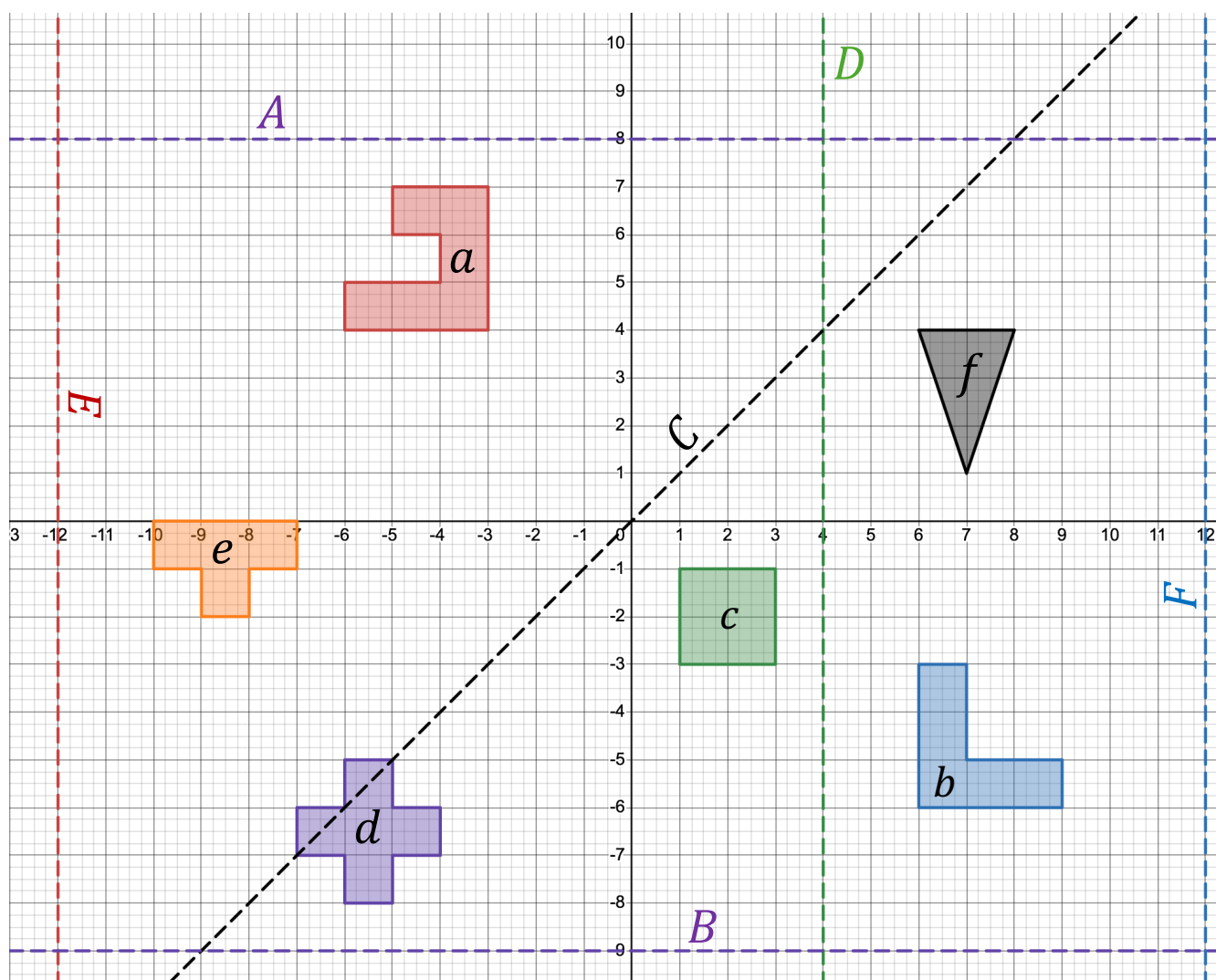
(a)



(20 Marks)

A =	B =	C =	D =
E =	F =	G =	H =
I =	J =	K =	L =
M =	N =	O =	P =
Q =	R =	S =	T =

(b)



1. Write the expressions for the following lines:
(the first has been done for you).

A: $y = 8$

B:.....

C:.....

D:.....

E:.....

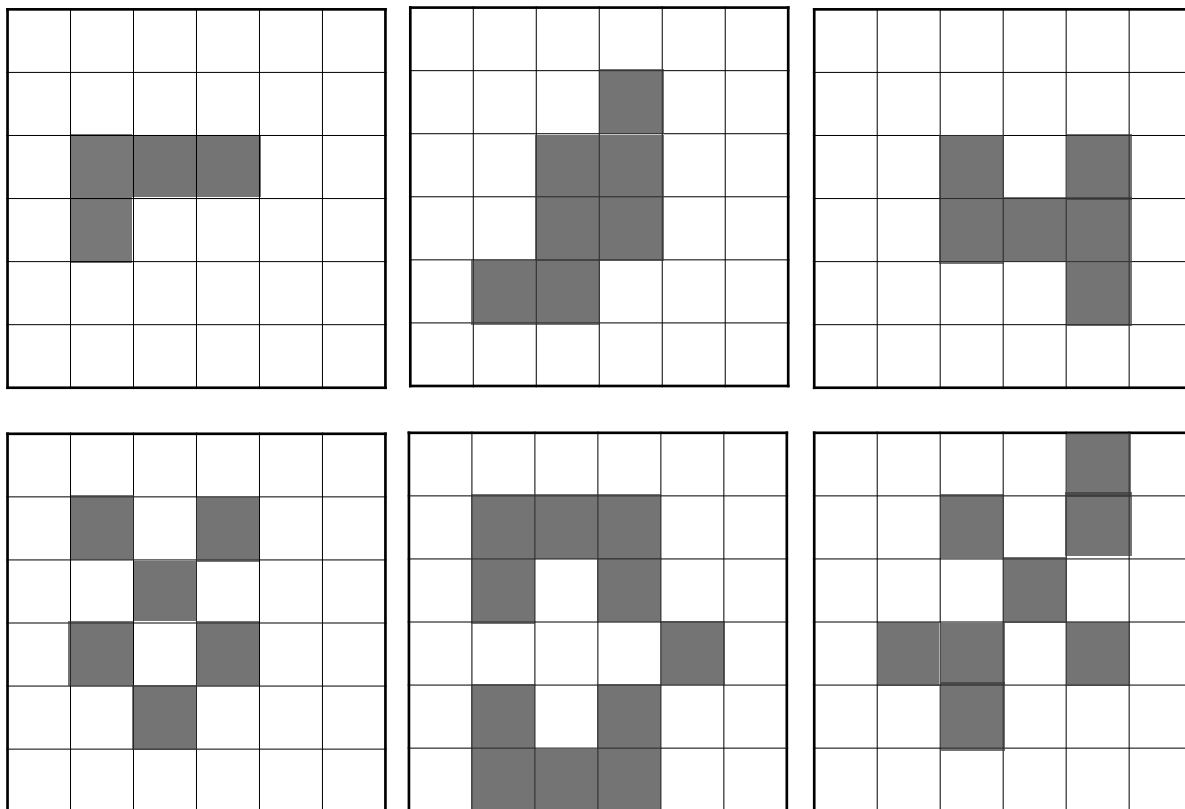
F:.....

(6)

1. Reflect Shape a in the line $x = -7$ and label the new shape x . (2)
1. Reflect Shape c in the line $y = x$ and label the new shape y . (2)
1. Reflect Shape e in the line $y = -3$ and label the new shape z . (2)

5.


- (a) Shade the required squares for the final shape to have a rotational symmetry of 2 (one square per diagram).





(6)

(b)

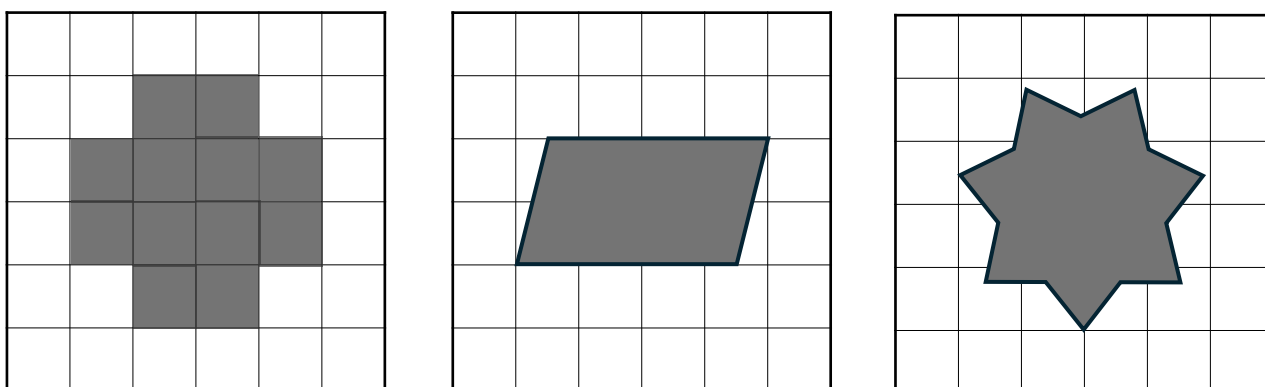
- I. What is the rotational symmetry of an equilateral triangle:
- II. How many lines of symmetry does a hexagon have:
- III. What is the rotational Symmetry of a parallelogram:

.....  1

.....  1

.....  1

- (c) Draw all possible lines of symmetry for the following shapes:



(3)

How did you revise for the exam? (tick all that you did)

Reading class notes ☐

Online practice ☐

Doing practice questions ☐

☐ Getting help from your teacher

☐ Recapping the previous exam

Study group (with friends) ☐

Reading textbooks ☐

Watching videos ☐

Were these revision techniques useful? (circle your answer)



Yes



A bit



No

How could you revise more effectively next time?

List three topics from this test that you are good at, and three that need more work.

1.)

5.)

2.)

5.)

3.)

6.)

"Failure is the stepping stone to success"

Revision Guidance & Resources

advancemaths.com/revision



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