

PICK

TMIX

Name:

.....

.....

Crossover

Paper 1

	Q	Topic	My Mark	Max Marks
Non Calculator	1			8
	2			8
Calculator	3			4
	4			4
	5			6
	6			5
				35

Revision list:

What I need to remember:

AJagger

Question 1

Work out.

a) $\frac{3}{7} + \frac{2}{3}$

Give your answer as a mixed number.

.....
[3]

b) $1\frac{3}{4} \times 2\frac{2}{5}$

Give your answer as a mixed number in its simplest form.

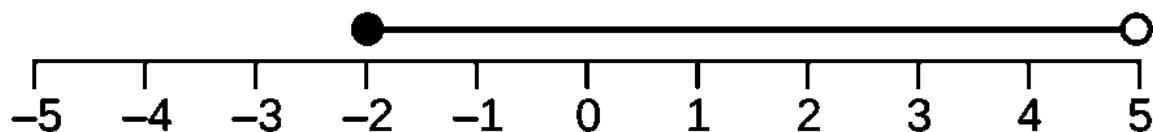
.....
[3]

c) $\frac{1}{2} \div \frac{1}{8}$

.....
[2]

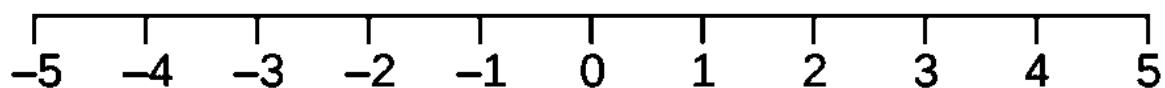
Question 2

a) Write down the inequality shown on the number line below.



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[2]

b) Represent the inequality $x \leq 2$ on the number line below.



[1]

c) Solve the inequalities:

i. $4x + 9 \leq 21$

.....
[2]

ii. $10a + 15 > 3a - 6$

.....
[3]

Question 3

James invested £2000 for three years in an Internet Savings Account.
He is paid 5.5% per annum compound interest.
John invested £3500 for three years in a standard interest account.
He is paid 4% per year.
Work out who earns the most interest at the end of the three years.

.....
[4]

Question 4

Miss Tyrrell catches the 9:45am bus from Leeds to London.
The distance between the two cities is 195 miles.
The bus travels at an average speed of 52 mph.
What time should she arrive in London?

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[4]

Question 5

a) Show that $4(a + 3) - 3(a - 2) = a + 18$.

b) Factorise fully

$$2x^2 + 4x$$

[2]

c) Expand and simplify.

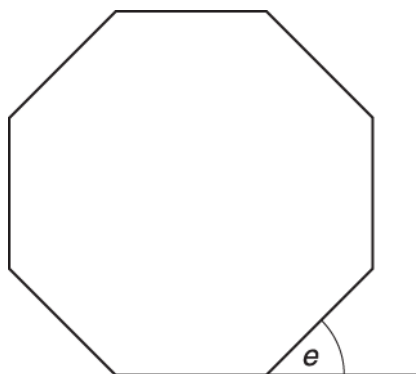
$$(x + 7)(x - 3)$$

.....
[2]

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[2]

Question 6

- a) This **regular** shape has 8 sides.
One side of the shape is extended as shown.

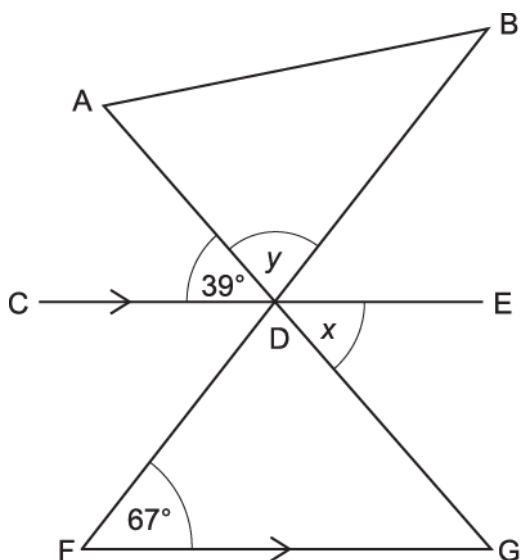


Not to
scale

Work out the size of angle e .

.....^o
[2]

- b) In the diagram, CDE is parallel to FG .
 ADG and BDF are straight lines.



Not to scale

Work out angle y .

.....^o
[3]