



Y5

CSSE maths Mock 8

2024

- 1) Work as quickly and as carefully as you can.
- 2) Mark any alterations to your answers clearly. You will not lose marks for crossing out.
- 3) You will have 60 minutes to do the test. If you cannot do a question, do not waste time on it but go on to the next one.

Name _____

Date _____



Question (and working space)	ANSWER	Please do not write in this space	
1 (a) Calculate $5767 + 79 =$	.....	
(b) Calculate $3245 - 268 =$	.....	
(c) Calculate $2032 \div 8 =$	.....	
2 (a) Calculate $\frac{5}{9} + \frac{3}{8} =$	.....	
(b) Calculate $3\frac{3}{7} - 1\frac{1}{5} =$	.....	
(c) Fill in the box to make the multiplication work $\frac{4}{7} \times \square = 2\frac{3}{5}$	Fill in the box		
(d) Fill in the box to make the division work $\frac{4}{7} \div \square = 1\frac{3}{25}$	Fill in the box		
Go to next page		(7)	

	ANSWER	Please do not write in this space
3 In imperial measures there are 12 inches in a foot and 3 feet in a yard and 2.5 centimetres in an inch.		
(a) Find the difference in feet between 7 $\frac{1}{2}$ yards and 93 feet.	..... feet	
(b) Find the difference in inches between 3 $\frac{1}{2}$ yards and 40 feet.	..... inches	
(c) Find the difference in cm between 1 metre and a 1 $\frac{1}{4}$ yard.	..... cm	
(d) A mile is 1,760 yards. Find the difference in feet between 2000 feet and the number of feet in $\frac{2}{5}$ of a mile.	..... feet	
4 (a) Hanusri has travelled 40% of a journey. If she's travelled 56 miles, how long is her journey?	..... miles	
(b) Rushi has travelled 60% of a journey. If he's travelled 84 miles, how long has he got left to travel in his journey?	..... miles	
(c) Lucas travelled on two journeys, journey A and journey B. 40% of journey A was the same distance as 60% of journey B. If the sum of the journeys was 150 miles. Find the distance of the longer journey. miles	
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Question (and working space)

ANSWER

Please do not write in this space

5 Westerfield Road club is supporting a local charity with a cookie bake-off event. Making cookies and selling them with all the profits going to charity.

(a) Fergus the chef needed 100g of flour for every 16 cookies. How much flour is needed for 400 cookies?

.....

(b) There were either small or big bags of cookies for sale. The small bags had 4 cookies in them. The big bags contained 6 cookies. There were 30 more small bags than big bags for sale. In total there were 2360 cookies. How many big bags were there?

.....

(c) Raffy bought 27 more cookies than Matt. After Matt gave 6 to Raffy, Raffy had 4 times as many as Matt. How many cookies did Matt have in the end?

.....

(d) The cookies were sold by two stalls. On stall A, ratio of the number of chocolate cookies to raisin cookies was 4:3. On stall B, the ratio of the number of toffee cookies to raisin cookies was 3:2. Stall A and B sold an equal number of raisin cookies. 70 more cookies were sold in Stall B than in Stall A. How many Chocolate cookies were sold in Stall B?

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(4)

	ANSWER	Please do not write in this space
<p>Question (and working space)</p> <p>Consecutive numbers are numbers that follow each other. For instance: consecutive whole numbers are 1, 2 and 3... consecutive even numbers are 2, 4 and 6... and consecutive odd numbers are 1, 3, and 5...</p>		
<p>6 (a) The sum of three consecutive integers is 39. Find the middle number.</p>	<p>.....</p>	
<p>(b) The sum of four consecutive integers is 106. Find the first number.</p>	<p>.....</p>	
<p>(c) Find the largest integer such that the sum of the larger and 3 times the smaller number is 234.</p>	<p>.....</p>	
<p>(d) Find three consecutive even integers such that 6 times the sum of the first and the third is 24 greater than 11 times the second.</p>	<p>.....</p>	

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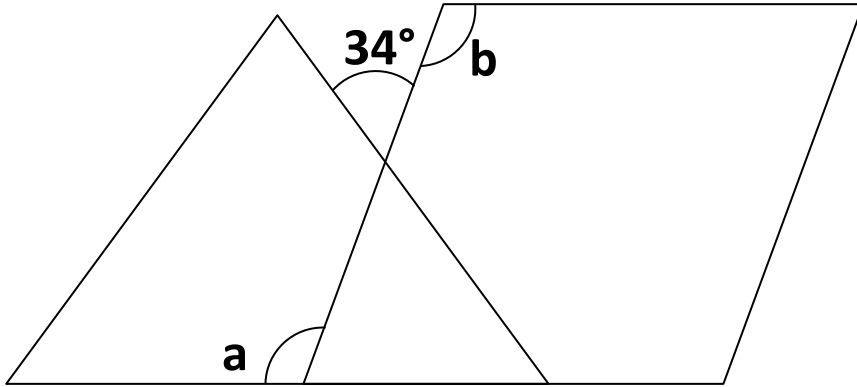
(4)

Question (and working space)	ANSWER	Please do not write in this space	
7 (a) Calculate $4.07 + 2.58 =$		
(b) Calculate $5.4 - 2.57 =$	.....	
(c) Calculate $3.4 \times 2.6 =$	.....	
(d) Calculate $29.4 \div 4.2 =$	.....	
8 For these statements say whether they are true or false.			
(a) If we know that a number A rounded to the nearest 10 comes to 20, then 3A rounded to the nearest 10 can come to 70.	..... true or false		
(b) If we know that a number B rounded to the nearest 10 comes to 120, then 2B + 2 rounded to the nearest 100 can come to 300.	..... true or false		
(c) If we know that a number C rounded to the nearest 5 comes to 80, then 2C - 6 rounded to the nearest 100 can come to 100.	..... true or false		
	Go to next page	(7)	

Question (and working space)	ANSWER	Please do not write in this space	
9 Violet is ordering a mirror. The one she likes has a length of 2 metres and width of 50cm.			
(a) What would the area of mirror be in centimetres squared?	.....cm ²		
(b) Violet's Mum has suggested she buy a mirror which is 45% longer to fit the space. What the new perimeter be?	.....cm		
(c) Violet's Dad has suggested she buy mirror which is 15% wider to fit the space. If Violet increased the width by 15%, what would the new area of the mirror be?	.....cm ²		
(d) If Violet increased both the length by 45% and the width by 25%, what would the percentage increase for the area be?%		
10 (a) Saha's school shoes last year cost £20. This year the same shoes cost £28. By what % has their price increased?%		
(b) Saha's friend Rushi let him know that there's a pair of shoes in a sale that would be better to buy. The sale has 30% off. The shoes cost £30.80 in the sale. What was their original price?	£.....		
	Go to next page	(7)	

Question (and working space)

- 11 The shape below is made up of an equilateral triangle and a rhombus. Find angles a and b .



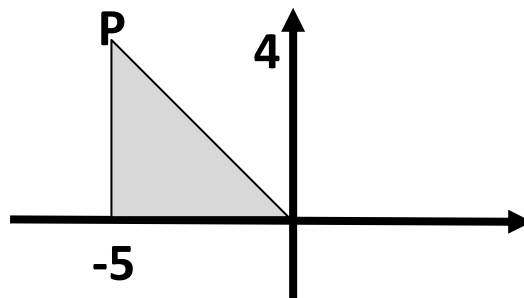
ANSWER

$a = \dots\dots\dots$
Degrees

$b = \dots\dots\dots$
Degrees

Please do not write in this space

- 12 A triangle has coordinates $(0,0)$ and $(-5,0)$ and $(-5,4)$.



(a) If the triangle is reflected in the x -axis, find where P moves to.

.....

(b) If the triangle is reflected in the y -axis and then moved down 4 units, find where P moves to.

.....

(c) If the triangle is rotated 90 degrees anticlockwise about $(0,0)$ find where P moves to.

.....

Go to next page

(5)

	ANSWER	Please do not write in this space
<p>13 Question (and working space)</p> <p>Rachel, Matt and Raffy all have different reading speeds for a similar sized page of 300 words. Rachel reads 6 pages in 5 minutes. Matt reads a page every 90 seconds. Zane reads a page every 2 minutes.</p>		
<p>(a) How many words can Zane read between 4.40pm and 5pm?</p>	<p>.....</p>	
<p>(b) How many words can Matt read in the same time it takes Zane to read a page?</p>	<p>.....</p>	
<p>(c) Rachel and Matt begin reading at the same time. How many pages more will Rachel read compared to Matt between the times of 5:02 and 5:17pm.</p>	<p>.....</p>	
<p>14 (a) A password can use any of the numbers from: 0, 2, 4, 6. How many different passwords are possible?</p>	<p>.....</p>	
<p>(b) A different password can use any of the numbers from: 0, 2, 4, 6, 8. How many different passwords are possible?</p>	<p>.....</p>	
<p>(c) A different password is made up of two digits. These can use any of the numbers from: 0, 1, 2, 4, 6. How many different passwords are possible.</p>	<p>.....</p>	
<p>(d) A different password is made up of two digits. These can use any of the numbers from: 0, 1, 2, 4, 6, but numbers cannot be used twice. How many different passwords are possible.</p>	<p>.....</p>	
	<p>Go to next page</p>	<p>(7)</p>

Question (and working space)	ANSWER	Please do not write in this space
15 (a) The weekly cost for student prizes in Ms Warde's class are £21, £25, £18 and £24. What is the average (mean of the prizes).	£.....	
(b) The average weight of Amy, Ben and Cara is 48kg. Amy is 7 kg heavier than Ben. Amy is also heavier than Cara. What is Amy's weight?	.....Kg	
(c) The average weight of 6 boys was 52kg. When 2 boys left the room, the average weight of the boys left was 48kg. What was the average weight of the two boys who left the room?	.....Kg	
(d) The average test score of a group of students was 80. When Ms Warde recorded one student's test scores she was not wearing her glasses, she accidentally recorded one student's test score as 20 when it should have been 90. As a result Ms Warde calculated the last average test score as 78. How many students were there in the group.	
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	Answer	Please do not write in this space	
16 Question (and working space) (a) In 2024, Amy, Ben, Cara and Dexter will have their 15 th , 12 th , 13 th and 12 th birthdays. In what year will their ages total 100?		
(b) Marc is 27 years old and his son Jack is 3 years old now. In how many years time will Marc's age be four times the age of Jack?		
(c) Emily and Fergus' ages add up to 10. In ten years time Emily will be one and a half times as old as Fergus. How old is Fergus now?		
(d) Rachel had Raffy her son when she was 32 years of age. Raffy has just celebrated his 11 th birthday. How old will Raffy be when his mother is 12 times as old as Raffy was 7 years ago?		
	Go to next page	(4)	

Question (and working space)	ANSWER	Please do not write in this space	
<p>17 Fifty years ago, the units of money in this country were not pounds and pence, they were pounds shilling and pence and an amount of money such as two pounds three shillings and four pence was written as £2 3s 4d.</p> <p>There were 12 pence in a shilling and 20 shillings in a pound.</p>			
<p>(a) How many pence were there in 5s 3d (five shillings and three pence) and 3s 1d (three shillings and three pence)?</p>	<p>.....d</p>		
<p>(b) How many pounds and shillings would 237 shillings be?</p>	<p>£.....,.....s</p>		
<p>(c) How many pence would there be in £4 5s 8d (four pounds five shillings and eight pence)?</p>	<p>.....d</p>		
<p>(d) How many pounds, shillings and pence would $2625d \div 7$ be? (two thousand, six hundred and twenty five pence).</p>	<p>£.....,.....s.....d</p>		
	<p>Go to next page</p>		<p>(4)</p>

End of test

	ANSWERS
1a	5846
1b	2977
1c	254
2a	$67/72$
2b	$78/35$ OE
2c	$91/20$ OE
2d	$25/49$
3a	70.5
3b	354
3c	12.5
3d	112
4a	140
4b	56
4c	90
5a	2500
5b	224
5c	13
5d	560
5e	84
6a	13
6b	25
6c	231
6d	22, 24, 26
7a	6.65
7b	2.83
7c	8.84
7d	7
8a	FALSE
8b	TRUE
8c	TRUE
9a	10000
9b	680
9c	11500
9d	81.25
10a	40

10b	44
11a	94
11b	94
12a	-5,-4
12b	5,0
12c	-4,-5
13a	3000
13b	400
13c	8
14a	24
14b	120
14c	25
14d	20
15a	22
15b	50
15c	48
15d	35
16a	2036
16b	5
16c	2
16d	16
17a	100
17b	11, 17
17c	1028
17d	1,11,3

Score out of 60