

$$4 \times £1.20 = £4.80 A1$$
 $3 \times £0.80 = £2.40 A1$
 7.20



Answer £ $\frac{7}{20}$ [3]

2. A school has 937 students. In the next academic year, 315 new students join the school while 138 leave. How many students are now at the school?

3.

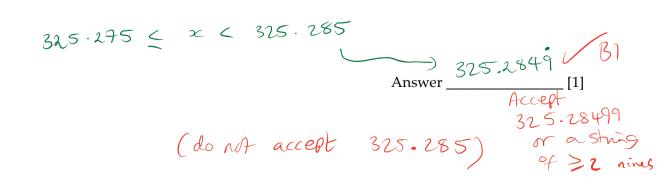
a) Round 813, 451 to the nearest 1000

b) Round 4. 059 to 1 decimal place

c) Round 0.0648 to the nearest hundredth

d) A calculator automatically rounds its answers to two decimal places. After a calculation, it displays the result 325.28.

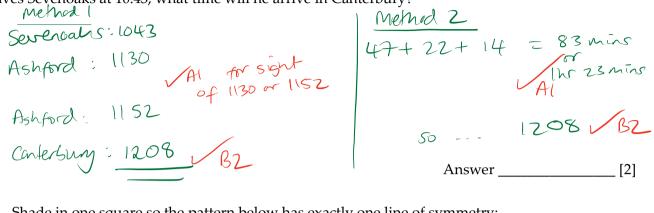
What is the largest value that the calculation could have produced on this calculator?

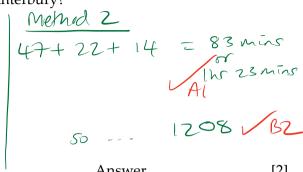


4.
a) Peggy claims that 1232 divides perfectly by 9. Is she right? You must show your working.
Either 1+2+3+2 /m/8, which is not divisible by 9, 80 no
9 1 2 3 6 . 8 8 MI, 50 no Al 9 1 1 2 3 3 6 2 8 0 8 0 1 0 or "remainder 8", so no Al Answer [2]
b) Jenny claims instead that 12345678987654321 is divisible by 9. Explain how she knows this
without pooding to perform the division
she can add the digits. If they sum to a multiple of 9 then the number is divisible by 9 Al (oe sertences)
The state of the s
a Multiple of I then the number is duisible
by 9/A1 (oe sentences)
[2]
5. Use the fact that $28 \times 16 = 448$ to work out the following: a) $448 \div 28 =$
Answer[1]
Answer 4.8 ÷ 16 =
Answer

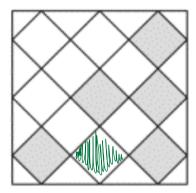
d) $0.28 \times 1600 =$

Aran is taking a train from Sevenoaks to Canterbury. This involves a 47-minute train to train to Ashford, followed by a 22-minute wait, followed by a 14-minute train to Canterbury. If his train leaves Sevenoaks at 10:43, what time will he arrive in Canterbury?





7. Shade in one square so the pattern below has exactly one line of symmetry:





[1]

Lorenzo scores 26 out of 40 in an exam. The pass mark set is 70%. Did Lorenzo pass? You must show all your working.

$$\frac{26}{40} = \frac{13}{20} = \frac{65}{100} = \frac{65\% / Al}{(\text{unaterer method})}$$

Answer _____ No (Since 65% < 70%)
[2]

123°

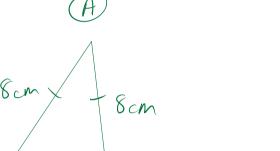




b) A triangle is formed with two different side lengths, 8cm and 3cm.

Yiannis says there are two possible triangles that can be formed. Is he correct? You need to justify your

answer via sketches or a sentence.



this con exist!

Al for sketch or sentence justifying that this triangle con that

3cm

8cm This con't exist

as the sum of the shorter sides the shorter sides is less than the larger side.

Al for shetch or sentence justificate that his transle [2]

10. Evaluate, leaving your answer as a mixed fraction in its simplest form:

$$3\frac{3}{4} + 5\frac{1}{3} - 0.5^{2}$$

$$\frac{15}{16} + \frac{16}{3} - \left(\frac{1}{2}\right)^{2}$$

15 + 16 - 4 VAI for sight of 1/4 or 0.25

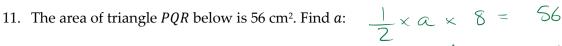
$$= \frac{106}{12}$$

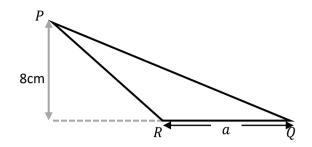
$$= \frac{53}{6}$$

$$\frac{45}{12} + \frac{64}{12} - \frac{3}{12}$$

45 + 64 - 3 12 VAI for use of Answer 8

a common denominator or converting all to decimals





MI for revesing area of briangle famula

Answer 14 B2

12. Place the following quantities in <u>ascending</u> order:

5.5%,
$$\frac{1}{20}$$
, 0.056, $\frac{1}{10}$, 0.55
0.055 0.056 0.100 5 To convert to some form

numbery convectly in that

must be in original $\frac{1}{10}$, 5.5%, 0.056, $\frac{1}{10}$, 0.55 / B3

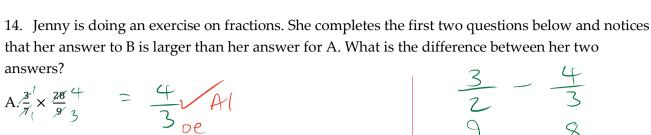
- 13. Evaluate and simplify where appropriate:
- a) $3^2 4 \times 5$

$$9 - 20 = -11$$

b)
$$\frac{(5+7)-\sqrt{16}\times 2}{8}$$

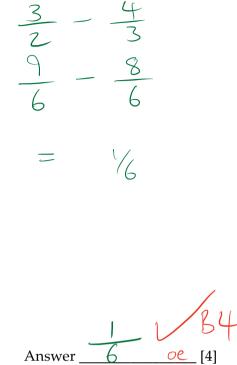
$$\frac{12-4\times2}{8}$$
 $\frac{12-8}{8} = \frac{4}{8}$ $\frac{4}{8}$ $\frac{12-8}{8}$ $\frac{12-8}{8}$ $\frac{4}{8}$ $\frac{12-8}{8}$ $\frac{12-8}{$

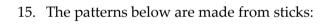
VAI for



B.
$$2\frac{1}{4} \div \frac{3}{2}$$
 $\frac{9}{4} \div \frac{3}{2}$

MI for appropriate regnor to divide furthers and a sight of $\frac{9}{4} \times \frac{2}{3}$
 $\frac{3}{2} \times \frac{1}{1} = \frac{3}{2} \text{ A1}$



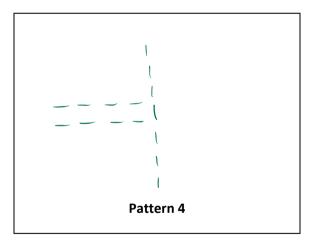






a) In the box, draw Pattern 4.

A corect horzontally



VAI correct vertically b) How many sticks will appear in the twelfth pattern?

3,7,11,15 --- At for expressing sequence numerically

[2]

10.	SHOW
1	5
The	range
The	medi
The	mear
Fine	d the f

Sho	wn belo	w are 5 c	ards whic	ch are arrai	nged in ascen	ding order:
5	a	7	Ь			

	7
1	
	1

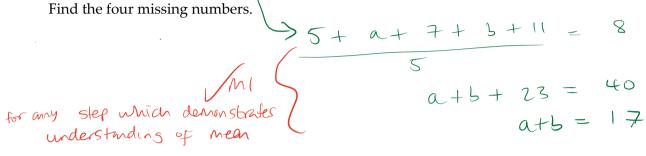




e of the cards is 6. .. bissest = 11 Al for sight of 11
ian of the cards is 7. Al for sight of 7

n of the cards is 8.

four missing numbers.



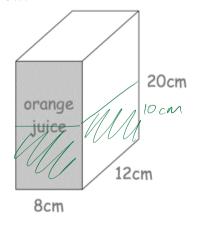
Option 1:
$$5, 7, 7, 0, 0, 0$$

Option 2: $5, 6, 7, 0, 0, 0, 0$

Answer

17. A carton of orange juice (shown below) is cuboid shaped. The depth of orange juice is normally 10 cm.

The carton is turned so that it stands on the shaded face. Work out the depth of the orange juice now.



Volume of orange Juice

Answer 6 m 131

