

1 Complete each calculation.

a) $16 - 25 =$

b) $36 - 42 =$

c) $29 - 55 =$

d) $57 - 68 =$

1
4 marks

2 Find the difference between each pair of numbers.

a) $(15) - (-3)$

b) $(-14) - (9)$

c) $(-28) - (28)$

d) $(20) - (-10)$

2
4 marks

3 Ollie went to Canada for work. When he left Manchester the temperature was 4°C . When he arrived in Canada it was 7 degrees cooler than Manchester. What was the temperature in Canada?

4 Ollie's hotel room is on the 23rd floor. The hotel lobby is on floor 0. Ollie parks his hire car on level -6 of the hotel's underground car park. How many floors does Ollie have to travel in the lift to get from his car to his room?

3
1 mark

4
1 mark

5

Use the BODMAS rule to answer these calculations. Show your working out.

a) $15 + (14 - 8) =$

b) $6 \times (8 + 4) =$

c) $130 - 8 \times 10 =$

d) $140 + 25 \div 5 =$

e) $(14 - 8) \times (5 + 4) =$

f) $75 - 50 \div 2 =$

5
6 marks**6**

Fabio bought a house for £398 495. The house needs renovating and Fabio has been told that this will cost £152 550. Fabio's total budget is £500 000. By how much over- or under-budget will Fabio be?

7

Part of the renovation cost on the house that Fabio has bought is for replacing windows. There are 12 windows that need replacing, each costing £1879.50. After paying for the new windows, how much of the £152 550 renovation costs will be left for other work on the house?

6
2 marks
7
2 marks

1 Solve these missing number equations by working out the value of the letter. Show any working out.

a) $52 - t = 38$

b) $55 + f = 92$

c) $12r = 84$

d) $8h + 66 = 90$

$t = \boxed{}$

$f = \boxed{}$

$r = \boxed{}$

$h = \boxed{}$

1
4 marks

2 There are 8 tins of baked beans in a supersaver pack. How many tins are there in

a) 6 packs? $\boxed{}$

b) 10 packs? $\boxed{}$

c) n packs? $\boxed{}$

2
3 marks

3 There are 9 bags of crisps in a family pack. If C is the total number of bags of crisps, write a formula to show how many bags there are in p packs.

$$C = 9p$$

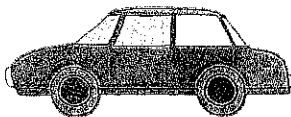
3
1 mark

4 The number of miles = 60 times the number of gallons.

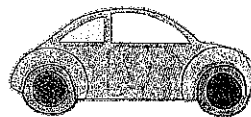
a) Write a formula for the number of miles (M) for each gallon (g) of petrol.

$$M = 60g \quad (\text{or } m = 60 \times g)$$

b) Use the formula to calculate how far each car travelled. Show your working out.



i) 6 gallons



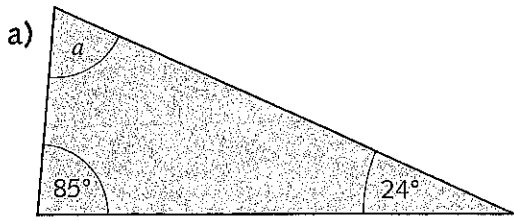
ii) 3.2 gallons



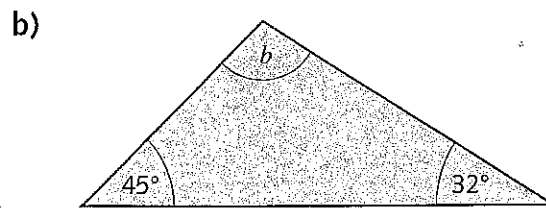
iii) 0.8 gallons

4
4 marks

2 Calculate the size of the missing angle in each triangle.



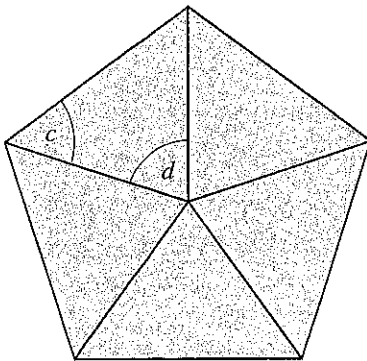
$a =$



$b =$

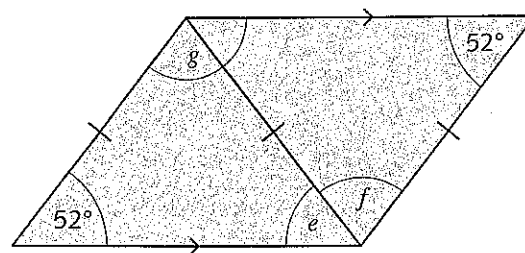
2
4 marks

3 The angles in a regular pentagon measure 108° . Calculate the value of angles c and d .



$c =$ $d =$

4 Calculate the value of angles e , f and g .



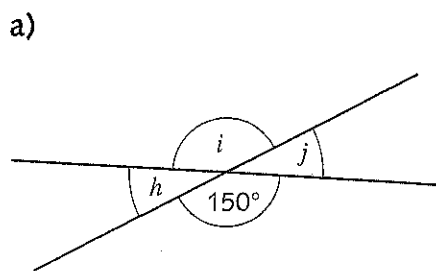
$e =$ $f =$

$g =$

3
2 marks

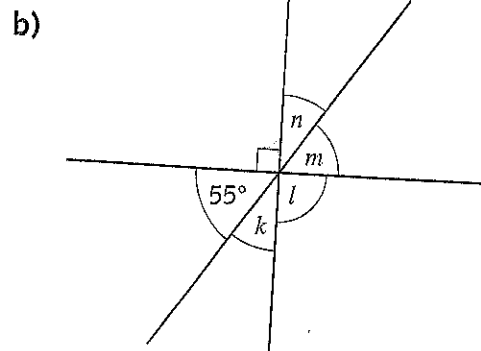
4
2 marks

5 Calculate the size of each unknown angle. Show your working out.



$h =$ $i =$

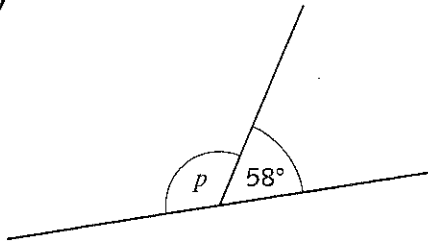
$j =$



$k =$ $l =$

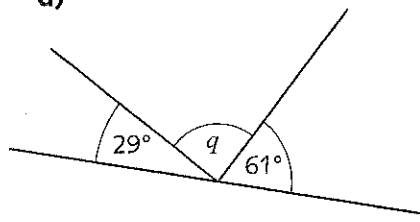
$m =$ $n =$

c)



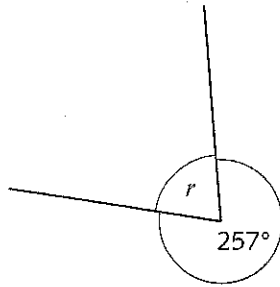
$p =$

d)



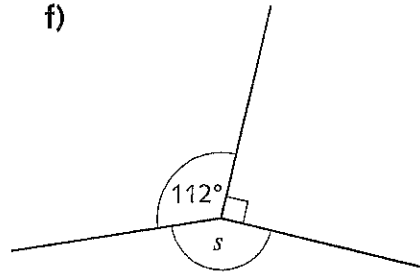
$q =$

e)



$r =$

f)



$s =$

5
6 marks