PAME _ MARICING SCHEME ADNO

An article which is marked for shs 45,000 is sold to a customer for shs 39,375. What percentage discount is the customer allowed?

$$\begin{array}{c}
 45 \\
 75 \\
 \hline
 39 375 \\
 \hline
 5, 625
\end{array}$$
Sisc 5, 625

2

(a) Find the greatest common divisor of the terms $8a^4b^3$ and $2a^2b^5$

(b) Hence factorize completely the expression $8a^4b^3 - 2a^2b^5$

$$29^{2} \int_{0}^{2} \left(49^{2} - 6^{2} \right)$$

3 Evaluate $\left(\frac{8}{125}\right)^{1/3} \times \left(\frac{16}{25}\right)^{-3/2} \times \left(\frac{64}{625}\right)^{\frac{1}{2}}$

$$\frac{8^{\frac{1}{3}}}{125^{\frac{1}{3}}} \times \frac{25^{\frac{3}{2}}}{16^{\frac{3}{2}}} \times \frac{64^{\frac{1}{2}}}{625^{\frac{1}{2}}}$$

$$\frac{2}{5} + \frac{5}{4^3} \times \frac{8}{25}$$

$$\frac{2^{1} + 5^{3} \times 2^{3}}{5 \times 2^{5} \times 5^{2}}$$
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(2 marks)

(2 marks)

(1 mark)

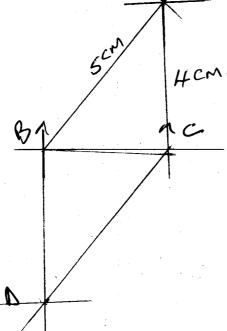
(3 marks)

$$\frac{1}{2^2}$$
 or $\frac{2}{2}$



. Town A is 250km on a bearing of 040° from town B. Town C is 200 km from town A and due east of town B. Fourth town D is on a bearing of 2200 from town C and due south of town B.

(a) Using a scale of 1cm: 50km, draw an accurate scale drawing showing the positions of towns A, B, C and D



(b) By measuring from your scale drawing, determine

(i) The distance BC

(1 mark)

(5 marks)

(ii) The distance BD

(1 mark)

€ 5.4×50 = 200 KM.

(0)

2.8 × 50

(iii) The distance CD

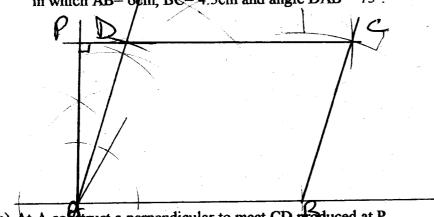
(1 mark)

(iv) The bearing of A from C

(2 marks)



30,50



(Imrk)

(b) At A construct a perpendicular to meet CD produced at P.

(c) Measure AP and hence calculate the area of the parallelogram

(d) Mark a point Q on AP produced such that the area of triangle ABQ is equal to the area of the parallelogram

$$\frac{1}{2} \times \frac{1}{5} \times \frac{2}{5} \times \frac{2}$$

(e) Complete the triangle ABQ and state the ratio AQ: AP