

(ART & D.T. Focus) Maths Word Problems – UKS2 – Year 6

1. An art supply order includes 1,248 pencils and 985 felt tips. How many items were ordered in total?
2. A school has 3,600 sheets of coloured card. If 1,475 sheets are used during Arts Week, how many sheets remain?
3. Each paint palette holds 24 colours. How many colours are there in total if the school has 36 palettes?
4. A roll of fabric costs £5.75. How much will it cost to buy 9 rolls?
5. A large canvas is 1.2 m wide and 2.5 m tall. What is its area?
6. 1,200 paintbrushes are shared equally between 15 classes. How many paintbrushes does each class receive?
7. A sculpture project uses $\frac{3}{5}$ of a 2-litre bottle of glue. How much glue is used?
8. A child uses 1.25 m of ribbon on Monday, 0.75 m on Tuesday, and 1.4 m on Wednesday. How much ribbon is used in total?
9. A school art competition awards prizes to 25% of 160 children. How many children win a prize?
10. The ratio of red paint to blue paint used in a project is 3:2. If 750 ml of paint is used altogether, how much red paint is used?

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MARK SCHEME

1. $1,248 + 985 = 2,233$ items.
2. $3,600 - 1,475 = 2,125$ sheets.
3. $24 \times 36 = 864$ colours.
4. $\pounds 5.75 \times 9 = \pounds 51.75$.
5. $1.2 \times 2.5 = 3 \text{ m}^2$.
6. $1,200 \div 15 = 80$ paintbrushes per class.
7. $\frac{3}{5}$ of 2 litres = 1.2 litres of glue.
8. $1.25 + 0.75 + 1.4 = 3.4 \text{ m}$ of ribbon.
9. 25% of 160 = 40 children.
10. 3:2 ratio means 3 out of 5 parts are red. $750 \div 5 = 150 \text{ ml per part} \rightarrow 150 \times 3 = 450 \text{ ml of red paint}$.