Question 1: Measurements

a) i. $9\,\text{mm} = 0.9\,\text{cm}$

ii. $2.78\,\text{m} = 278\,\text{cm}$

iii. $3\,\text{m}\,45\,\text{cm} = 3.45\,\text{m}$

b) $4\,\text{m}\,65\,\text{cm} = 4.65\,\text{m}$

c) $8.5\,\text{cm} = 85\,\text{mm}$

Question 2: Fractions

a) A rectangle divided into 5 equal parts with 2 parts shaded.

b) $\frac{3}{6} = \frac{1}{2}$.

c) $\frac{3}{4} \times 10 = 7.5\,\text{parts}$. Already shaded: 4 parts.
Additional parts to be shaded: $7.5 - 4 = 3.5$.

d) $\frac{8}{12} = \frac{2}{3}$.

e) $\frac{9}{8} = 1\frac{1}{8}$.

Question 3: Mixed Numbers and Improper Fractions

a) i. $\frac{13}{4} = 3\frac{1}{4}$

ii. $\frac{17}{5} = 3\frac{2}{5}$.

b) i. Three and one-third $= \frac{10}{3}$.

ii. Five and two-fifths $= \frac{27}{5}$.

c) $2\,\text{m}$ divided into 7 parts $= \frac{2}{7}\,\text{m}$ per piece.

Question 4: Time

a) Total time: $21:45 - 14:30 = 7\,\text{hours and}\,15\,\text{minutes}$.

b) A clock with the hour hand slightly past 6 and the minute hand at 3.

c) i. $7:15\,\text{PM} = 19:15\,(24\text{-hour format})$.

ii. $11:45\,\text{AM} = 11:45\,(24\text{-hour format})$.

d) $\frac{1}{4}$ of a circle $= 15\,\text{minutes}$.

Question 5: Real-Life Problem Solving

a) Scheduled time: $20:50 + 35\,\text{minutes} = 21:25$.
AM/PM format: $9:25\,\text{PM}$.

b) Total journey time: $03:40\,(\text{next day}) - 19:25\,(\text{previous day}) = 8\,\text{hours and}\,15\,\text{minutes}$.

c) Speed: $\text{Distance} = 3.5\,\text{km}, \ \text{Time} = 0.5\,\text{hours}$.
$\text{Speed} = \frac{3.5}{0.5} = 7\,\text{km/h}$.

Question 6: Decimal and Fractional Forms

Measurement	Fractional Form	Decimal Form
$3\,\text{cm}\,7\,\text{mm}$	$\frac{307}{100}\,\text{cm}$	$3.07\,\text{cm}$
$8\,l\,125\,\text{mL}$	$\frac{8125}{1000}\,l$	$8.125\,l$
$2\,\text{kg}\,650\,\text{g}$	$\frac{2650}{1000}\,\text{kg}$	$2.65\,\text{kg}$
$5\,\text{m}\,30\,\text{cm}$	$\frac{530}{100}\,\text{m}$	$5.3\,\text{m}$

Question 7: Practical Fractions

a) i. Fraction eaten $= \frac{5}{12}$.
ii. To eat $\frac{3}{4}$ of the cake: $\frac{3}{4} \times 12 = 9\,\text{slices}$. Already eaten: 5 slices. Additional slices: $9 - 5 = 4$.

b) Juice per bottle: $\frac{2}{5}\,\text{liters} = 0.4\,\text{liters}$.

c) Equivalent fractions:
$\frac{7}{10} = \frac{14}{20}$. Verify: $\frac{7}{10} = 0.7, \ \frac{14}{20} = 0.7$.