Marking Scheme

PaperSetter Sample School

Mathematics: Whole Numbers, Fractions, Area…

GRADE 6 — 2026

Q1.

A. 12 — the greatest common divisor is the largest number dividing both: $24 = 12 \times 2$ and $36 = 12 \times 3$. B and C divide both as well but are not the greatest.

Q2.

A. $5\frac{3}{4}$ — divide the top by the bottom: $23 \div 4 = 5$ remainder 3.

Q3.

A. 72 cm^2 — a trapezium's area is the average of the parallel sides times the height: $\frac{1}{2}(10 + 14) \times 6 = 12 \times 6$. B forgets the half.

Q4.

A. $3{,}250$ kg — 1 tonne is $1{,}000$ kg, so the 3 tonnes become $3{,}000$ kg, then add the 250.

Q5.

A. 180° — the three angles of any triangle always total 180°. B is the total for a quadrilateral.

Q6.

A. $x > 4$ — subtract 3 from both sides. Adding or subtracting never changes the direction of the sign, so $x > 4$. C flips it for no reason.

Q7.

A. $3{,}400$ — adding the sum and the difference gives twice the larger number: $(5{,}600 + 1{,}200) \div 2 = 3{,}400$. B is the smaller number. Check: $3{,}400 + 2{,}200 = 5{,}600$.

Q8.

A. Ksh $1{,}400$ — work out each share and add: $\frac{1}{3}$ of $2{,}400$ is 800 and $\frac{1}{4}$ is 600, so together they got $1{,}400$.

Q9.

A. $2{,}246$ m^2 — find both areas and subtract. The plot is $60 \times 40 = 2{,}400$ m^2 and the fountain is $\frac{22}{7} \times 7^2 = 154$ m^2, so $2{,}400 - 154 = 2{,}246$. B forgets to remove the fountain.

Q10.

A. $1{,}550$ kg — convert first: 5 tonnes is $5{,}000$ kg. The space left is $5{,}000 - 3{,}450 = 1{,}550$.

Q11.

A. 70° — the angles total 180°, so the third is $180 - 65 - 45 = 70$. C is $65 + 45$, adding the two given angles instead of taking them away from 180.

Q12.

A. $2, 3, 4, 5, 6$ — the $\leq$ includes 2 but the $<$ excludes 7. C wrongly includes 7 and B wrongly excludes 2; the two signs are different and that is the whole question.

Q13.

A. 70° each — the two angles opposite the equal sides are equal, and the three total 180°: $(180 - 40) \div 2 = 70$. C just repeats the given angle.

Q14.

A. $x < 4$ — divide both sides by -2. Dividing by a negative number reverses the inequality, so $>$ becomes $<$. B is exactly what happens if that rule is forgotten.