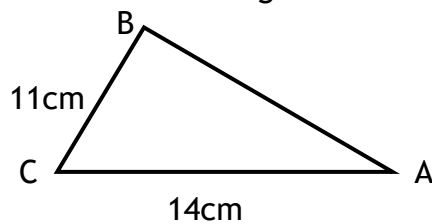22. Express in its simplest form

$$\frac{3x^5 \times 8x^6}{12^4}$$

23. The volume of a sphere is 3250 cm³.
    Calculate its radius, correct to 3 significant figures.
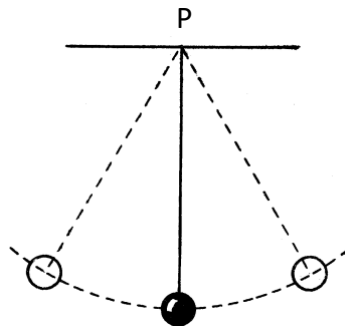
24. The triangle below has an area of 71 cm².

    Calculate the size of the acute angle BCA.

25. Change the subject of the formula below to Q.

$$7P = \frac{3Q^2 + 1}{2}$$

26. A pendulum swings from a point P. Its radius is 16cm.

    If it swings though an angle of 38°, calculate the length of the arc before the pendulum returns to its original position.

27. Fully factorise $2x^2 - 32$ and then simplify $\frac{2x^2 - 5x - 12}{2x^2 - 32}$

28. Express $\frac{3}{\sqrt{12}}$ as a fraction with a rational denominator in its simplest form.