1   List all the factors of 36.

2   What is the HCF of 85 and 184

3   Light A blinks every 70 seconds. Light B blinks every 25 seconds. If both lights blink at the same time, after how long do they blink again at the same time?

4   Round 482.388 to the nearest tenth.

5   In the number 839284, what is the value of the three?

6   Round 872.382 to one significant figure.

7   Round 893.291 to two significant figures.

8   Truncate 3928.482 to the nearest tenth.

9   G is rounded to the nearest tenth. It rounds to 782.3. Write down the error interval of G.

10   Find the value of $\dfrac{7^3 + 5^3}{8^2}$. Give your answer as a number.

11   Find the value of $\dfrac{8^7 \times 32^4 \times 128^3}{64^5}$. Give your answer in index form.

12   Factorise $16x^2 + 24\,x$ fully.

13   Expand and simplify $5x(3x + y) + 7x(4x - 3)$

14   Expand $(4x - 3)(5x + 2)$

15   Factorise and solve $4x^2 + 20x + 21 = 0$

16   Write $x^2 + 24x - 7$ in completed square format.

17   Factorise $16x^2 - \dfrac{9}{25}$

18    $\dfrac{36}{55} \times \dfrac{13}{18} \times \dfrac{33}{39} \times \dfrac{16}{42} \times \dfrac{54}{80} \times \dfrac{10}{18} =$

19   Estimate $\dfrac{4032 \times 5054 \times 388.923}{472.847 \times 3782 \times 392} \approx$

20    $\dfrac{m^5 \times m^a \times n^7}{n^{11}} = m^{25} n^b$ Find the values of a and b.