

# THE PREP SCHOOL

## Answer key

### Admission to Grade: 5

#### Mathematics

1. (i) 43 019      (ii) factors      (iii) 0.45      (iv) >

2. i)  $12 = 2 \times 2 \times 3$   
 $18 = 2 \times 3 \times 3$

HCF = Product of common factors  
=  $2 \times 3$   
= 6

3. i)  $\frac{17}{8} \div 17$        $\frac{17}{8} \div 17$   
  
=  $\frac{17}{8} \times \frac{1}{17}$       =  $\frac{17}{8} \times \frac{1}{17}$   
  
=  $\frac{1 \times 1}{8 \times 1}$       OR      =  $\frac{17 \times 1}{8 \times 17}$   
  
=  $\frac{1}{8}$       =  $\frac{1}{8}$   
  
=  $\frac{1}{8}$       =  $\frac{1}{8}$

4. Distance from home to mosque =  $\frac{3}{5}$  km

Distance from mosque to park =  $\frac{6}{15}$  km

Total distance covered from home to park =  $\frac{3}{5} + \frac{6}{15}$   
=  $\frac{3 \times 3}{5 \times 3} + \frac{6}{15}$   
=  $\frac{9}{15} + \frac{6}{15}$   
=  $\frac{9+6}{15}$   
= 1 km

ii)  $53.47 \times 69$

$$\begin{array}{r} \begin{array}{ccc} \textcircled{2} & \textcircled{2} & \textcircled{4} \\ \textcircled{3} & \textcircled{4} & \textcircled{6} \end{array} \\ 53.47 \\ \times \quad 69 \\ \hline 48123 \\ + 320820 \\ \hline 3689.43 \end{array}$$

So,  $53.47 \times 69 = 3689.43$

ii)

hours	minutes
8	30
– 2	28
<hr/>	
6	02

8 hours 30 minutes – 2 hours 28 minutes  
= 6 hours 02 minutes

5. Total number of books = 1 027

Number of boxes = 13

Number of books in each box =  $1\,027 \div 13$

= 79

$$\begin{array}{r} 79 \\ 13 \overline{) 1027} \\ \underline{- 91} \phantom{0} \\ 117 \\ \underline{- 117} \\ 0 \end{array}$$