

Words problems of Estimation

name _____

class _____

Solve the following word problems by estimation.

- 1 Tom and Jacob have collected stamps. Tom has collected 86 stamps and Jacob has collected 67 stamps. How many stamps altogether they are having? Choose the better estimate.

$$\begin{array}{r}
 \text{Tom has} = 86 \text{ stamps} = 90 \\
 \text{Jacon has} = 67 \text{ stamps} = 70 \\
 \quad \quad \quad + \\
 \hline
 \text{altogether stamps} = 160 \text{ stamps}
 \end{array}$$

- 2 Tom and Jerry both ran a ten kms race. Tom completed in 15mi and 45sec and Jerry's time was 13mi and 21 sec. What was their approximate combined time?

$$\begin{array}{r}
 \text{Time taken by tom} = 15 \text{ mi and } 45 \text{ sec} \\
 \quad \quad \quad = 16 \text{ mi} \\
 \text{Time taken by Jerry} = 13 \text{ mi and } 21 \text{ sec} \\
 \quad \quad \quad = 13 \text{ mi} \\
 \text{approximate combined time} = 16 + 13 \\
 \quad \quad \quad = 29 \text{ mi}
 \end{array}$$

- 5 Fred went hiking. He hiked 318 miles the first week, and 481 miles the second week. How many miles did Fred hike? (Round to the nearest tens)

$$\begin{array}{r}
 \text{Distance hiked in first week} = 318 \text{ miles} \\
 \quad \quad \quad = 320 \text{ miles} \\
 \text{Distance hiked in second week} = 481 \text{ miles} \\
 \quad \quad \quad = 480 \text{ miles} \\
 \text{Estimate of movie tickets} = 320 + 480 \\
 \quad \quad \quad = 800 \text{ miles}
 \end{array}$$

- 7 There are about 324 passengers in each car of the city train. As there are 9 cars for each train, estimate how many passengers would be there in the train? (Round to the nearest tens)

$$\begin{array}{r}
 \text{Passengers in each car} = 324 \text{ people} \\
 \quad \quad \quad = 320 \text{ people} \\
 \text{No. of cars in train} = 9 \\
 \text{Estimate of passengers in train} = 320 \times 9 \\
 \quad \quad \quad = 2,880 \text{ people}
 \end{array}$$

- 3 There are 450 pencils in the drawer. Cherry placed 636 more pencils in the drawer. How many pencils are now in drawer? (Round to the nearest tens)

$$\begin{array}{r}
 \text{Pencils in the drawer} = 450 \text{ pencils} \\
 \quad \quad \quad = 450 \\
 \text{Pencils placed by cherry} = 636 \text{ pencils} \\
 \quad \quad \quad = 640 \\
 \text{Total pencils in drawer} = 450 \\
 \quad \quad \quad + 640 \\
 \hline
 \quad \quad \quad = 1090 \text{ pencils}
 \end{array}$$

- 4 A movie theatre has Thursday special movie, having 375Rs/- as ticket price. Estimate how much it would cost a family of 5 to see the movie?

$$\begin{array}{r}
 \text{Ticket price} = 375 \text{ Rs/-} \\
 \quad \quad \quad = 400 \\
 \text{Tickets for 5 people} = 400 \times 5 \\
 \quad \quad \quad = 2000
 \end{array}$$

$$\text{Estimate of movie tickets} = 2000 \text{ Rs/-}$$

- 6 Paul rides 2.4 km from his house to tennis stadium and then 1.8km to cricket stadium. He does this for 4 days a week. Approximately how far does he ride per week?

$$\begin{array}{r}
 \text{Distance to tennis stadium} = 2.4 \text{ km} \\
 \quad \quad \quad = 2 \text{ km} \\
 \text{Distance to cricket stadium} = 1.8 \text{ km} \\
 \quad \quad \quad = 2 \text{ km} \\
 \text{Total distance} = 2 + 2 \\
 \quad \quad \quad = 4 \text{ km} \\
 \text{4 days covered distance} = 4 \times 4 \\
 \quad \quad \quad = 16 \text{ km}
 \end{array}$$

$$\text{Approximate distance covered by Paul is} = 16 \text{ km}$$