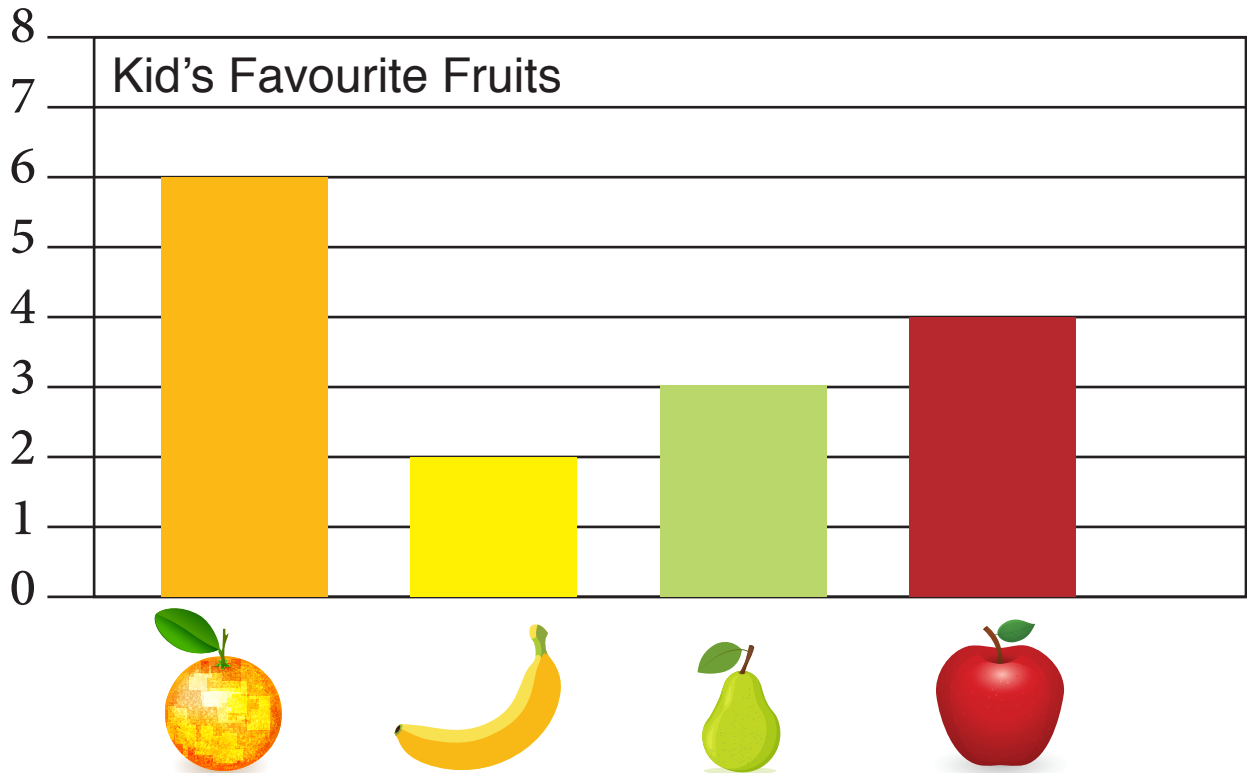


Bar graphs

Study the bar graph and answer the questions.



How many kids liked apples?

Which fruit did the most kids like?

Which fruit did the kids like the least?

How many kids liked bananas?

How many kids liked either pears or bananas?

How many kids liked either oranges or apples?

Multiplication of whole numbers

Find the product.

1

$$\begin{array}{r} 7,689 \\ \times \quad 36 \\ \hline 276,804 \end{array}$$

2

$$\begin{array}{r} 1,553 \\ \times \quad 92 \\ \hline 142,876 \end{array}$$

3

$$\begin{array}{r} 5,551 \\ \times \quad 18 \\ \hline 99,918 \end{array}$$

4

$$\begin{array}{r} 8,854 \\ \times \quad 17 \\ \hline 150,518 \end{array}$$

5

$$\begin{array}{r} 6,828 \\ \times \quad 80 \\ \hline 546,240 \end{array}$$

6

$$\begin{array}{r} 6,679 \\ \times \quad 84 \\ \hline 561,036 \end{array}$$

7

$$\begin{array}{r} 6,988 \\ \times \quad 83 \\ \hline 580,004 \end{array}$$

8

$$\begin{array}{r} 9,688 \\ \times \quad 54 \\ \hline 523,152 \end{array}$$

9

$$\begin{array}{r} 1,141 \\ \times \quad 82 \\ \hline 93,562 \end{array}$$

Division of whole numbers

Find the quotient and the remainder.

$$\textcircled{1} \quad \begin{array}{r} 824\text{R}20 \\ 23 \overline{) 19,386} \end{array}$$

$$\textcircled{2} \quad \begin{array}{r} 1,268\text{R}5 \\ 18 \overline{) 22,829} \end{array}$$

$$\textcircled{3} \quad \begin{array}{r} 1,373\text{R}4 \\ 14 \overline{) 19,226} \end{array}$$

$$\textcircled{4} \quad \begin{array}{r} 1,865\text{R}6 \\ 21 \overline{) 39,171} \end{array}$$

$$\textcircled{5} \quad \begin{array}{r} 4,352\text{R}11 \\ 21 \overline{) 91,403} \end{array}$$

$$\textcircled{6} \quad \begin{array}{r} 1,364\text{R}17 \\ 23 \overline{) 31,389} \end{array}$$

Order of operations

○ Solve the following.

① $3 \times 9 + 7$

34

⑥ $(67 - 18) \div 7 \times 3$

21

② $12 + 36 \div 4$

21

⑦ $5^2 - 8$

17

③ $9 \div 3 + 4 \times 6$

27

⑧ $2^3 \times 3^2$

72

④ $2 \times 11 - 12 \div 2$

16

⑨ $4^2 \times (8 - 3)$

80

⑤ $8 \times 18 \div 4 + 15$

51

⑩ $(7 \times 8 - 4) \div (6 - 2)$

13

Mixed numbers

○ Convert.

$$① \quad 7 \frac{3}{5} = \frac{38}{5}$$

$$② \quad 6 \frac{5}{8} = \frac{53}{8}$$

$$③ \quad 9 \frac{2}{10} = \frac{46}{5}$$

$$④ \quad 2 \frac{2}{4} = \frac{5}{2}$$

$$⑤ \quad 6 \frac{1}{9} = \frac{55}{9}$$

$$⑥ \quad 5 \frac{5}{7} = \frac{40}{7}$$

$$⑦ \quad 3 \frac{1}{8} = \frac{25}{8}$$

$$⑧ \quad 3 \frac{3}{12} = \frac{13}{4}$$

$$⑨ \quad 6 \frac{1}{11} = \frac{67}{11}$$

$$⑩ \quad 4 \frac{3}{4} = \frac{19}{4}$$

$$⑪ \quad 8 \frac{9}{12} = \frac{35}{4}$$

$$⑫ \quad 9 \frac{2}{8} = \frac{37}{4}$$

$$⑬ \quad 5 \frac{8}{11} = \frac{63}{11}$$

$$⑭ \quad 3 \frac{6}{9} = \frac{11}{3}$$

$$⑮ \quad 5 \frac{10}{11} = \frac{65}{11}$$

$$⑯ \quad 6 \frac{5}{6} = \frac{41}{6}$$

$$⑰ \quad 9 \frac{1}{2} = \frac{19}{2}$$

$$⑱ \quad 7 \frac{9}{10} = \frac{79}{10}$$

Fractions

○ Simplify the fractions.

$$① \quad \frac{6}{30} = \frac{1}{5}$$

$$② \quad \frac{5}{10} = \frac{1}{2}$$

$$③ \quad \frac{4}{40} = \frac{1}{10}$$

$$④ \quad \frac{24}{30} = \frac{4}{5}$$

$$⑤ \quad \frac{6}{8} = \frac{3}{4}$$

$$⑥ \quad \frac{8}{12} = \frac{2}{3}$$

$$⑦ \quad \frac{12}{24} = \frac{1}{2}$$

$$⑧ \quad \frac{99}{108} = \frac{11}{12}$$

$$⑨ \quad \frac{4}{8} = \frac{1}{2}$$

$$⑩ \quad \frac{18}{90} = \frac{1}{5}$$

$$⑪ \quad \frac{50}{80} = \frac{5}{8}$$

$$⑫ \quad \frac{63}{72} = \frac{7}{8}$$

Adding fractions

Find the sum.

$$① \quad 3 \frac{1}{4} + 3 \frac{5}{8} = 6 \frac{7}{8}$$

$$② \quad 9 \frac{9}{10} + 2 \frac{3}{5} = 12 \frac{1}{2}$$

$$③ \quad 3 \frac{5}{11} + 4 \frac{2}{3} = 11 \frac{4}{33}$$

$$④ \quad 5 \frac{2}{8} + 2 \frac{4}{10} = 7 \frac{13}{20}$$

$$⑤ \quad 8 \frac{7}{9} + 5 \frac{9}{11} = 14 \frac{59}{99}$$

$$⑥ \quad 6 \frac{2}{7} + 7 \frac{1}{2} = 13 \frac{11}{14}$$

$$⑦ \quad 5 \frac{1}{2} + 8 \frac{3}{4} = 14 \frac{1}{4}$$

$$⑧ \quad 10 \frac{2}{3} + 7 \frac{1}{7} = 17 \frac{17}{21}$$

$$⑨ \quad 10 \frac{8}{10} + 9 \frac{7}{12} = 20 \frac{23}{60}$$

$$⑩ \quad 3 \frac{7}{8} + 3 \frac{1}{3} = 7 \frac{5}{24}$$

$$⑪ \quad 4 \frac{3}{7} + 6 \frac{1}{5} = 10 \frac{22}{35}$$

$$⑫ \quad 1 \frac{4}{6} + 9 \frac{3}{8} = 11 \frac{1}{24}$$

Subtracting fractions

Find the difference.

$$\textcircled{1} 16\frac{3}{9} - 10\frac{2}{5} = 5\frac{14}{15} \quad \textcircled{2} 7\frac{5}{12} - 2\frac{1}{2} = 4\frac{11}{12}$$

$$\textcircled{3} 8\frac{9}{10} - 3\frac{2}{3} = 5\frac{7}{30} \quad \textcircled{4} 19\frac{2}{3} - 11\frac{5}{8} = 8\frac{1}{24}$$

$$\textcircled{5} 13\frac{1}{8} - 12\frac{10}{12} = \frac{7}{24} \quad \textcircled{6} 18\frac{1}{2} - 17\frac{2}{8} = 1\frac{1}{4}$$

$$\textcircled{7} 14\frac{4}{10} - 13\frac{1}{3} = 1\frac{1}{15} \quad \textcircled{8} 19\frac{7}{12} - 19\frac{1}{5} = \frac{23}{60}$$

$$\textcircled{9} 20\frac{3}{4} - 18\frac{2}{3} = 2\frac{1}{12} \quad \textcircled{10} 19\frac{7}{10} - 13\frac{4}{10} = 6\frac{3}{10}$$

Fractions to decimals

Convert.

$$1 \quad 58\frac{5}{10} = 58.5$$

$$2 \quad 26\frac{87}{100} = 26.87$$

$$3 \quad 38\frac{7}{10} = 38.7$$

$$4 \quad 85\frac{5}{100} = 85.05$$

$$5 \quad 22\frac{4}{10} = 22.4$$

$$6 \quad 25\frac{47}{100} = 25.47$$

$$7 \quad 92\frac{5}{10} = 92.5$$

$$8 \quad 24\frac{5}{10} = 24.5$$

$$9 \quad 25\frac{46}{100} = 25.46$$

$$10 \quad 81\frac{6}{10} = 81.6$$

$$11 \quad 17\frac{12}{100} = 17.12$$

$$12 \quad 98\frac{8}{10} = 98.5$$

$$13 \quad 56\frac{24}{100} = 56.24$$

$$14 \quad 50\frac{38}{100} = 50.38$$

$$15 \quad 78\frac{8}{10} = 78.8$$

Metric units

Convert to the units shown.

1 494 L = 494,00 mL

2 2.07 L = 2,070 mL

3 7.3 L = 7,300 mL

4 20.6 L = 20,600 mL

5 97.6 L = 97,600 mL

6 0.70 L = 700 mL

7 8.3 L = 8,300 mL

8 39.2 kg = 39,200 g

9 935 kg = 935,000 g

10 45.8 L = 45,800 mL

11 1,667 mL = 1.667 L

12 18,924 g = 18.924 kg

13 39,523 g = 39.523 kg

14 39,917 mm = 3,991.7 cm

15 28,737 mL = 28.737 L

16 3,234 mm = 323.4 cm

Measuring angles

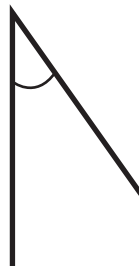
Measure the angle with a protractor. Is it acute, obtuse or a right angle?

1



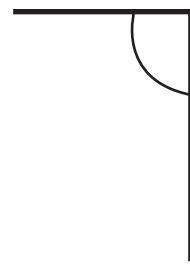
15° Acute

2



45° Acute

3



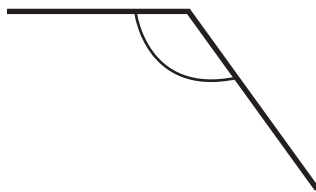
90° Right

4



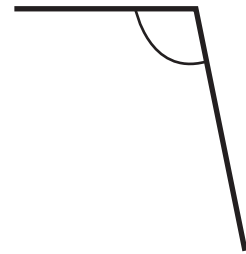
15° Acute

5



135° Obtuse

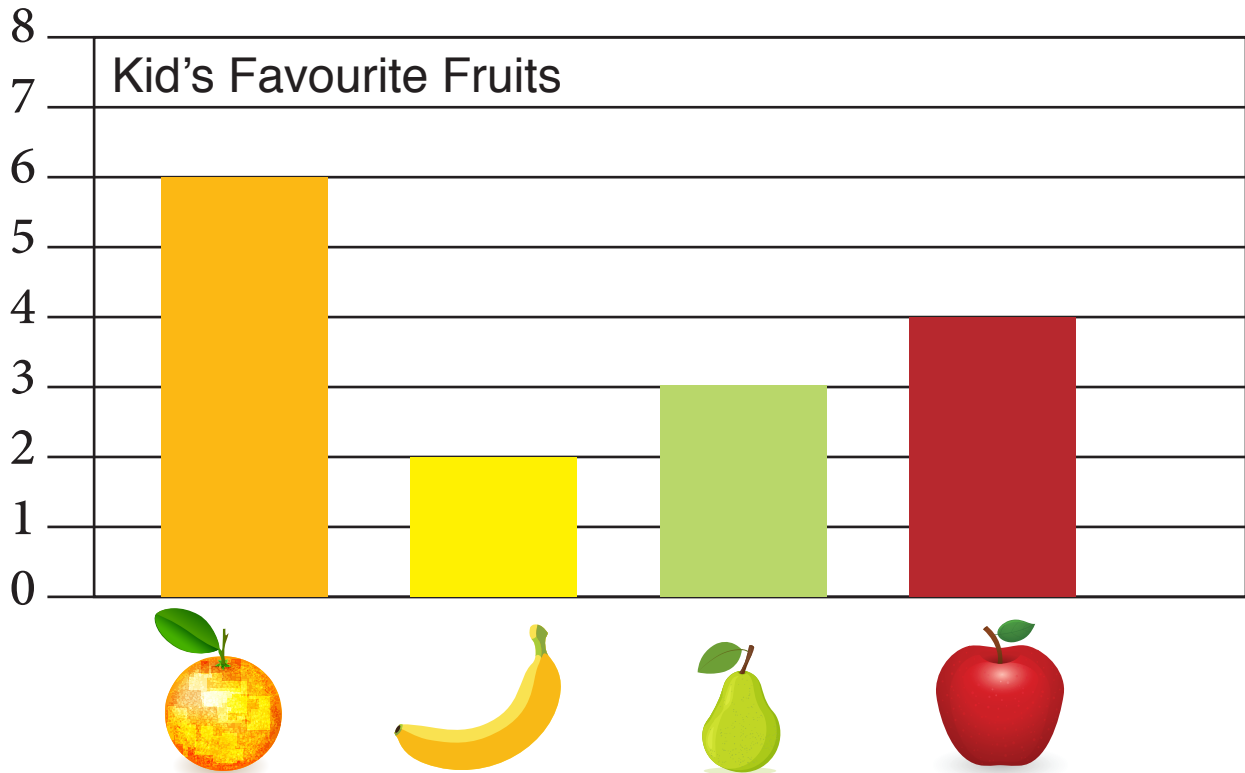
6



105° Obtuse

Bar graphs

Study the bar graph and answer the questions.



How many kids liked apples? 4

Which fruit did the most kids like? Oranges

Which fruit did the kids like the least? Bananas

How many kids liked bananas? 2

How many kids liked either pears or bananas? Bananas 2, Pears 3.

How many kids liked either oranges or apples? Oranges 6, Apples 4