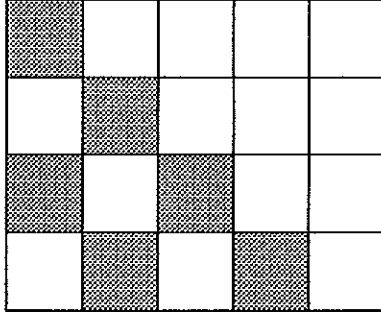


# FRACTIONS YEARS 7 AND 8

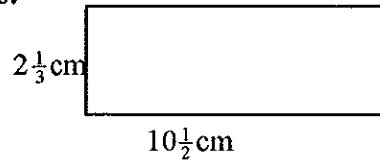
- 1 The fraction of this block of chocolate which is shaded is:



- A  $\frac{6}{14}$       B  $\frac{3}{10}$       C  $\frac{3}{7}$       D  $\frac{1}{3}$
- 2 Which fraction is not equivalent to 0.05?
- A  $\frac{5}{10}$       B  $\frac{5}{100}$       C  $\frac{1}{20}$       D  $\frac{50}{1000}$
- 3 The solution to  $\frac{7}{8} - \frac{3}{4}$  is:
- A  $\frac{4}{4}$       B  $\frac{4}{8}$       C  $\frac{1}{8}$       D  $\frac{21}{32}$
- 4 If I have 3 pizzas delivered, and must share them between 24 members of our maths class, each student will receive:
- A  $\frac{1}{8}$  of one pizza      B  $\frac{1}{8}$  of each pizza
- C 8 pieces of pizza      D  $\frac{3}{8}$  of a pizza
- 5 The equivalent fraction to  $\frac{2\frac{1}{2}}{10}$  is:
- A  $\frac{1}{5}$       B  $\frac{1}{4}$
- C  $\frac{3}{10\frac{1}{2}}$       D None of these



12 The perimeter of this rectangle is:

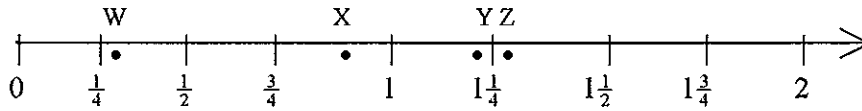


- A  $12\frac{1}{5}\text{ cm}$       B  $12\frac{5}{6}\text{ cm}$       C  $24\frac{2}{5}\text{ cm}$       D  $25\frac{2}{3}\text{ cm}$

13  $6 \div \frac{1}{8}$  is equal to:

- A  $\frac{3}{4}$       B  $\frac{4}{3}$       C  $\frac{1}{48}$       D 48

14 On this number line,  $\frac{9}{7}$  would be closest to:



- A Point W      B Point X      C Point Y      D Point Z

15  $3\frac{1}{3} - 1\frac{5}{9}$  is equal to:

- A  $1\frac{7}{9}$       B  $\frac{2}{3}$   
 C  $1\frac{2}{3}$       D None of these

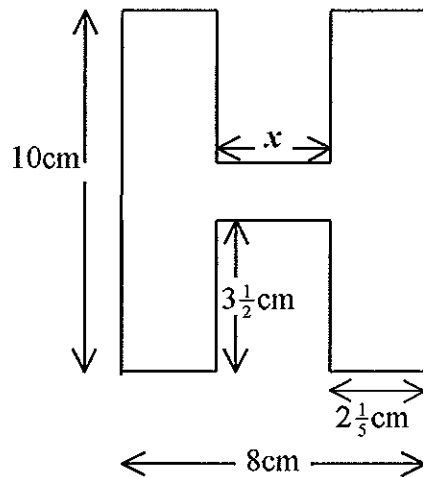
16  $\frac{1}{\frac{5}{6}}$  is equal to:

- A  $\frac{1}{30}$       B 30      C  $\frac{5}{6}$       D  $\frac{6}{5}$

17  $\left(\frac{6}{7} + \frac{3}{14}\right) \div \frac{5}{7}$  is equal to:

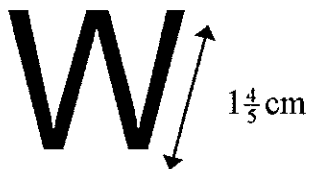
- A  $1\frac{11}{70}$       B  $1\frac{1}{2}$       C  $\frac{3}{5}$       D  $\frac{5}{7}$

- 18 This is a letter H used for a special advertising sign. It is completely symmetrical:



The value of  $x$  must be:

- A  $2\frac{1}{5}$  cm  
 B 3 cm  
 C  $3\frac{3}{5}$  cm  
 D There is insufficient information to find  $x$
- 19 This is a letter W for another sign. It is made from brass.



Each of the 4 line segments is  $1\frac{4}{5}$  cm long. The total length of the 4 parts is:

- A  $4\frac{4}{5}$  cm  
 B  $5\frac{4}{5}$  cm  
 C  $7\frac{1}{5}$  cm  
 D None of these
- 20 If Mike and his two sisters, Helen and Sophie, are given \$10 between them, and Helen was to be given  $\frac{2}{5}$  of the money and Sophie  $\frac{1}{4}$ , what amount of money was left for Mike?
- A \$3.50  
 B \$6.67  
 C \$6.50  
 D None of these

21 What fraction of an hour is 12 minutes?

A  $\frac{3}{25}$

B  $\frac{1}{2}$

C  $\frac{1}{5}$

D None of these

22 If you need to measure out  $\frac{7}{25}$  of a metre of paper for a school project, this is the same as:

A 2.8 cm

B 7 cm

C 28 cm

D 70 cm

23 We are about to reach the end of the second millennium. What fraction is a decade of a millennium?

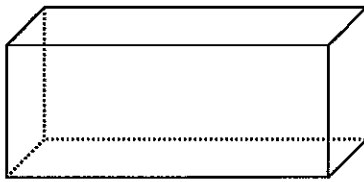
A  $\frac{1}{10}$

B  $\frac{1}{100}$

C  $\frac{1}{1000}$

D  $\frac{1}{10000}$

24 A box contains 35 red marbles, 10 white marbles and 5 black marbles.



If the marbles were mixed up, the chance of picking up a red marble is:

A 35

B  $\frac{35}{50}$

C  $\frac{35}{45}$

D  $\frac{1}{3}$

25 Three friends won \$360 000 in a big lottery. Kim was only to receive  $\frac{1}{20}$ , because that is the fraction she paid towards the systems entry. Similarly Jeff was to get  $\frac{2}{3}$  and the remainder was to go to Sam. The fraction Sam was to receive was:

A  $\frac{1}{3}$

B  $\frac{43}{60}$

C  $\frac{17}{60}$

D None of these

26  $\frac{4}{9} \times \frac{30}{49} \times \frac{7}{8} \times \frac{14}{15}$  is equal to:

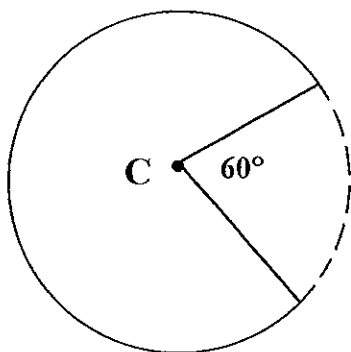
A  $\frac{55}{81}$

B  $\frac{2}{9}$

C  $\frac{49}{8}$

D None of these

27 The distance around the edge of this circle of centre C is 36 cm. This means that the part of the circumference which is dotted would be:



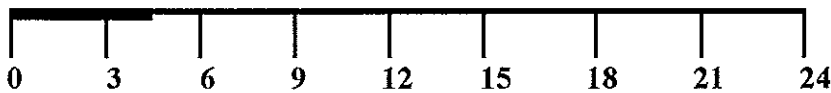
A 6 cm

B 8 cm

C 10 cm

D 12 cm

28 The fraction of this line which remains unshaded is, in its simplest form:



A  $\frac{3}{16}$

B  $\frac{3}{4}$

C  $\frac{19\frac{1}{2}}{24}$

D  $\frac{13}{16}$

29 Which one of these fractions is not equivalent to  $\frac{7}{8}$ ?

A  $\frac{28}{32}$

B  $1\frac{3}{4}$

C  $\frac{0.014}{0.016}$

D  $\frac{9}{10}$

30 At the theatre Dave received  $\frac{1}{4}$  of a large block of chocolate from his friend. But Dave's younger brother begged for a piece of Dave's chocolate and so Dave gave him  $\frac{2}{5}$  of his piece. What fraction of the original large block did Dave end up eating?

A  $\frac{3}{5}$

B  $\frac{1}{10}$

C  $\frac{3}{20}$

D  $\frac{17}{20}$

**ANSWERS TO YR 7 & 8 FRACTIONS**

1	B	2	A	3	C	4	A	5	B	6	B
7	D	8	D	9	B	10	B	11	C	12	D
13	D	14	D	15	A	16	D	17	B	18	C
19	C	20	A	21	C	22	C	23	B	24	B
25	C	26	B	27	A	28	D	29	D	30	C