

1

$125 + 271 =$

$$\begin{array}{r} 125 \\ + 271 \\ \hline 396 \end{array}$$

396



1 mark

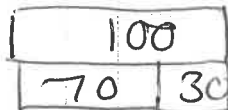
2

$100 - \boxed{70} = 30$

knowledge of bonds $10 - 7 = 3$
 $100 - 70 = 30$

$or: 100 - 30 = 70$

↑
inverse



- visual representation

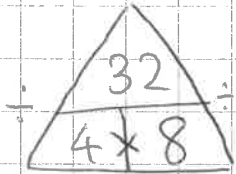


1 mark

3

$32 \div 8 =$

division / times table fact



$\therefore 32 \div 8 = 4$

4



1 mark

4

$3,150 - 1,000 =$

- mentally decrease the thousands column for 3,150 by 1.

or

$$\begin{array}{r} 3,150 \\ - 1,000 \\ \hline 2,150 \end{array}$$

2150



1 mark

5

$$\frac{4}{7} + \frac{2}{7} =$$

\ /

common denominator

$$\frac{6}{7}$$



1 mark

6

$$4^2 =$$

$$4^2 = 4 \times 4 = 16$$

16



1 mark

7

$42 \times 6 =$

$$\begin{array}{r} 42 \\ \times 6 \\ \hline 252 \\ \hline \end{array}$$

252



1 mark

8

10

$\times \text{£}168 = \text{£}1,680$

- see the relationship between
£168 and £1,680
£1,680 is ten times bigger



1 mark

9

$$18,072 + 3,928 =$$

$$\begin{array}{r} 18072 \\ + 3928 \\ \hline 22000 \\ \hline \end{array}$$

line up the place values correctly

22,000



1 mark

10

$$6 \times 8 = \boxed{12} \times 4$$

$$\begin{array}{c} \uparrow \\ 48 = \boxed{?} \times 4 \end{array}$$

use times tables



1 mark

11

$$\frac{5}{6} - \frac{1}{2} =$$

- need a common denominator

$\frac{5}{6}$ stays the same.

$$\frac{1}{2} \begin{array}{l} \times 3 \\ \times 3 \end{array} = \frac{3}{6}$$

$$\frac{5}{6} - \frac{3}{6} = \frac{2}{6}$$

$$\frac{2}{6}$$



1 mark

12

$$\frac{3}{7} \text{ of } 2,800 \text{ m} =$$

$$\frac{1}{7} \text{ of } 28 = 28 \div 7 = 4$$

$$\frac{3}{7} \text{ of } 28 = 4 \times 3 = 12$$

$$\frac{3}{7} \text{ of } 2800 = 1200$$

$$1200 \text{ m}$$



1 mark

13

$172 \times 5 =$

$$\begin{array}{r} 172 \\ \times \quad 5 \\ \hline 860 \\ \hline \end{array}$$

860



1 mark

14

$\frac{9}{11} \times 3 =$

think of it being $\frac{9}{11} \times \frac{3}{1}$

$= \frac{27}{11}$

or $2 \frac{5}{11}$

$\frac{11}{11} + \frac{11}{11} = \frac{22}{11}$

 $\frac{27}{11}$ 

1 mark

15

$$852 \div 6 =$$

$$\begin{array}{r} 142 \\ 6 \overline{)852} \end{array}$$

142



1 mark

16

$$6.23 \times 100 =$$

$$6.23 \times 10 = 62.3$$

$$62.3 \times 10 = 623$$

or

H	T	O	Th	Hths
		6	2	3
6	2	3		

- 2 jumps
- 100x bigger

623



1 mark

17

$36 \times 49 =$

$$\begin{array}{r} 36 \\ \times 49 \\ \hline 324 \\ + 1440 \\ \hline 1764 \end{array}$$

1,764



1 mark

18

$72 + \boxed{9,928} = 10,000$

$$\begin{array}{r} 999 \\ \times 10,000 \\ \hline 9990000 \\ - 72 \\ \hline 9928 \end{array} \quad \text{inverse}$$

or calculate mentally



1 mark

19

$$1\frac{2}{3} + 1\frac{5}{9} = \text{need a common denominator}$$

$$1\frac{2}{3} \xrightarrow[\times 3]{\times 3} 1\frac{6}{9} \quad \frac{9}{9} + \frac{2}{9}$$

$$1\frac{6}{9} + 1\frac{5}{9} = 2\frac{11}{9} = 3\frac{2}{9}$$

$$3\frac{2}{9}$$



1 mark

20

$$394 \times 17 =$$

$$\begin{array}{r} 394 \\ \times 17 \\ \hline 2758 \\ + 36980 \\ \hline 6698 \end{array}$$

$$6,698$$



1 mark