

Chapter 1 Number skills

Name: _____

All Multiple Choice

- 1 What is 1232×3 ?
A 1232
B 2230
C 2464
D 3696
- 2 What is $18 + 4 \times (10 - 3)$?
A 18
B 28
C 32
D 46
- 3 What is the highest common factor of 20 and 40?
A 2
B 4
C 10
D 20
- 4 What are the factors of 12?
A 1, 2, 3, 4, 6, 12
B 1, 2, 4, 12, 24, 36
C 1, 2, 4, 8, 12, 24
D 1, 2, 3, 4, 5, 6
- 5 What is the lowest common multiple of 11 and 22?
A 11
B 20
C 22
D 44
- 6 What is the square root of 81?
A 5
B 6
C 7
D 9
- 7 What is twelve squared equivalent to?
A 12
B 36
C 64
D 144
- 8 What are the first 4 multiples of 7?
A 7, 14, 21, 28
B 1, 7, 8, 9
C 7, 21, 35, 42
D 1, 2, 3, 4
- 9 What is the approximate answer to $4203 \div 23$?
A 150
B 170
C 183
D 200
- 10 What is the approximate answer to 83243×188 ?
A 8 000 000
B 15 808 000
C 16 000 000
D 15 649 684
- 11 What does $\frac{4}{11} + \frac{2}{11}$ equal?
A $\frac{6}{11}$
B $\frac{6}{22}$
C $\frac{8}{11}$
D $\frac{8}{22}$

12 What does the division, $6\frac{1}{5} \div \frac{7}{10}$ equal?

- A $4\frac{17}{50}$
- B $8\frac{6}{7}$
- C $6\frac{7}{50}$
- D $6\frac{10}{35}$

13 The conversion of $4\frac{2}{3}$ to a decimal correct to 2 decimal places is:

- A 0.66
- B 4.33
- C 4.66
- D 4.67

14 The conversion of 0.8 to a fraction is:

- A $\frac{8}{100}$
- B $\frac{8}{1000}$
- C $\frac{4}{50}$
- D $\frac{4}{5}$

15 The answer to $5.73 - 0.08$ is:

- A 4.93
- B 5.65
- C 5.71
- D 6.32

16 Evaluate 78.34×2.1 . The answer is:

- A 80.44
- B 156.44
- C 164.514
- D 1645.14

17 The answer to $\frac{2}{3}$ of $300 \div (32 \div 8) + 9 - 2$ is:

- A 24
- B 50
- C 57
- D 59

18 Which of these is a true number sentence?

- A $50 - 4 \times (6 + 2) - 7 = 11$
- B $(50 - 4) \times 6 + 2 - 7 = 11$
- C $50 - (4 \times 6) + 2 - 7 = 11$
- D $50 - 4 \times 6 + (2 - 7) = 11$

19 Ken went to the fruit market and bought:

- 3kg of apples at \$1.80 per kg
- 800g of peas at \$2.90 per kg
- 1.5kg of oranges at \$0.89 per kg

The total cost of the items are:

- A \$3.75
- B \$4.87
- C \$5.89
- D \$9.06

20 Kate eats $\frac{2}{7}$ of her apple now and $\frac{1}{7}$ of the apple after dinner. What fraction is left over?

- A $\frac{1}{7}$
- B $\frac{2}{7}$
- C $\frac{3}{7}$
- D $\frac{4}{7}$

- 21 Ken wants to share his 24 toys between his 3 friends. Each friend will receive:
- A 3 toys
 - B 8 toys
 - C 10 toys
 - D 12 toys

- 22 Jon and Kate eat $\frac{3}{8}$ of a chocolate cake. They decide to share the remainder with their mum and dad. What fraction will each parent get?

- A $\frac{10}{8}$
- B $\frac{10}{16}$
- C $\frac{5}{16}$
- D $\frac{8}{10}$

- 23 Peter sold 0.82 of his cap collection. What fraction is this?

- A $\frac{82}{100}$
- B $\frac{8}{100}$
- C $\frac{82}{10}$
- D $\frac{8.2}{100}$

- 24 In the previous question, Peter had 50 caps to begin with. How many caps does he still have?

- A 6
- B 7
- C 8
- D 9

- 25 I am an improper fraction. My numerator is a multiple of 11. My denominator is a prime number. The sum of the numerator and the denominator is 29. What fraction am I?

- A $\frac{11}{18}$
- B $\frac{22}{7}$
- C $\frac{18}{11}$
- D $\frac{22}{11}$

- 26 The number 1 is:

- A a prime number
- B a composite number
- C a multiple of 6
- D a factor of 13

- 27 The number 14 is:

- A a prime number
- B a composite number
- C a multiple of 28
- D a factor of 2

- 28 What is $16^2 - 8^2$?

- A 192
- B 64
- C 16
- D 8

- 29 Which of the following is a proper fraction?

- A $\frac{5}{3}$
- B $\frac{3}{5}$
- C $\frac{13}{5}$
- D 7.42

30

Find $\frac{3}{4}$ of $\frac{1}{2}$ of 6.

A 9

B 4

C $2\frac{1}{4}$

D $7\frac{1}{9}$

31

Sam ate $\frac{2}{5}$ of his pizza for lunch and $\frac{2}{3}$ of the remainder for afternoon tea. What fraction of the original pizza was left over?

A $\frac{1}{3}$

B $\frac{1}{5}$

C $\frac{2}{5}$

D 0

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$\frac{28}{31}$

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 - D $\frac{7.42}{5}$

$\frac{9}{9}$

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- A 9
 - B 4
 - C $2\frac{1}{4}$
 - D $7\frac{1}{4}$

- 31 Sam ate $\frac{2}{5}$ of his pizza for lunch and $\frac{2}{3}$ of the remainder for afternoon tea. What fraction of the original pizza was left over?
- A $\frac{1}{3}$
 - B $\frac{1}{5}$
 - ~~C $\frac{2}{5}$~~
 - D 0
- $\frac{2}{5} \times \frac{2}{3} = \frac{4}{15} = \frac{2}{7.5}$
- $1 - \frac{2}{5} - \frac{2}{7.5} = \frac{1}{5}$
- $\frac{1}{2}$

Number skills

Name: _____

Non-calculator questions

$\frac{8}{10}$

- 1 Find an approximate answer to the following:
 $272 + 3072 + 36 + 82371$

$$\begin{array}{r} 272 \\ 3072 \\ 36 \\ 82371 \\ \hline 85751 \end{array}$$

85751

85751

- 2 The weather forecast predicted that over the next 11 months it would rain 17 mm per month. Approximately how much rain might fall?

$$\begin{array}{r} 17 \\ \times 11 \\ \hline 17 \\ 170 \\ \hline 187 \end{array}$$

187 mm ✓

- 3 Jane eats $\frac{3}{8}$ of her pizza for lunch and $\frac{2}{8}$ for dinner. What amount is left over?

- A $\frac{2}{8}$
 B $\frac{3}{8}$
 C $\frac{4}{8}$
 D $\frac{5}{8}$

- 4 Is the following statement true or false? FALSE X

$$\begin{array}{r} 3612 \\ - 318 \\ \hline 324 \\ + 24 \\ \hline 348 \\ + 15 \\ \hline 363 \end{array}$$

- 5 What might be the missing digits?

$$\frac{\boxed{3}}{12} + \frac{4}{12} = \frac{\boxed{7}}{12} \quad \checkmark$$

$\frac{4}{5}$

- 6 Use 3 of the following fractions to make a true number sentence.

$\frac{2}{5}, \frac{3}{4}, \frac{7}{20}, \frac{23}{20}$
 $\frac{2}{5} + \frac{3}{4} = \frac{23}{20}$ ✓

- 7 Evaluate $3\frac{2}{3} \div \frac{5}{9}$

$$\frac{11}{15} \times \frac{9}{5} = \frac{33}{5} = 6\frac{3}{5} \quad \checkmark$$

- 8 What mixed numeral, when multiplied by $2\frac{2}{5}$, gives a result of $3\frac{9}{25}$?

$\frac{12}{5}$

$$\frac{75+9}{9} = \frac{12}{5}$$

Convert method try again
 $\frac{75}{9} \times \frac{5}{12} = \frac{375}{108}$
 $= 3\frac{51}{108} = 3\frac{17}{36}$

- 9 If $\frac{3}{5}$ is subtracted from a number to give a result of $\frac{2}{3}$, what is the number?

~~$\frac{2}{5} + \frac{2}{3} = \frac{2}{5}$~~
 $\frac{9}{15} + \frac{10}{15} = \frac{19}{15} = 1\frac{4}{15}$ ✓

- 10 Two identical fractions add to give $\frac{1}{3}$. What might the 2 fractions be? $\frac{1}{6}$ ✓

$\frac{1}{3} \times \frac{1}{2} = \frac{1}{6}$
 $\frac{4}{5}$

Number skills

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Non-calculator questions

1 What are the missing numbers?

$$\begin{array}{r} 48 \\ + 25 \\ \hline \square 3 \end{array} \quad \begin{array}{r} 7 \\ \times 8 \\ \hline \square \square \end{array}$$

$$\begin{array}{r} 19 \\ \square 4 \end{array}$$

2 What numbers could be added to 427 to make it divisible by 10?

Give 2 possible solutions. 3, 13 ✓

3 A number is divided by 6 and the remainder is 3. What might the number be?

Give 2 possible solutions. 39, 15 ✓

4 What could the missing numbers be?

$$\begin{array}{r} 289 \\ - \square 5 \square \\ \hline 135 \end{array} \quad \begin{array}{r} 8, 1, 4 \end{array}$$

5 List all the factors of 36.

1, 2, 3, 4, 9, 12, 18, 36 ✓

6 Use order of operations to calculate the following.

$$\begin{array}{r} 240 \div 4 + 15 - 33 \\ \hline 75 \end{array} \quad \begin{array}{r} 75 - \\ 33 \\ \hline 42 \end{array} \quad 42 \checkmark$$

7 Use order of operations to calculate the following.

$$(412 - 352) + (41 - 32 + 3) = 60 + 10 = 70$$

$$\begin{array}{r} 3412 - \\ 352 \\ \hline 060 \end{array} \quad 35$$

$$\begin{array}{r} 12 \\ \square \\ \hline 14 \end{array}$$

8

- (a) Write all the factors of 12: 1, 2, 3, 4, 6, 12 ✓
- (b) Write all the factors of 15: 1, 3, 5, 15 ✓
- (c) Write all the common factors of 12 and 15: 1, 3 ✓
- (d) Write the highest common factor of 12 and 15: 3 ✓

9

- From the list of numbers 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13:
- (a) write all the multiples of 2: 2, 4, 6, 8, 10, 12 ✓
 - (b) write all the multiples of 3: 3, 6, 9, 12 ✓
 - (c) write the common multiples of 2 and 3: 6, 12 ✓
 - (d) write the lowest common multiple of 2 and 3: 6 ✓

$$\begin{array}{r} 3 \\ \times 12, 15 \\ \hline 4, 5 \end{array}$$

10

Evaluate the following.

$$\sqrt{36} + 0.7^2 - \frac{1}{2} \times \sqrt{4} = 6 + 0.49 - 0.5 = 5.99$$

$$\begin{array}{r} 10.1 \\ \times 49 \\ \hline 1.98 \end{array}$$

$$\frac{7}{10}$$