# Chapter 1 Number skills

### All Multiple Choice

- 1 What is  $1232 \times 3$ ?
  - A 1232
  - B 2230
  - C 2464
  - D 3696
- 2 What is  $18 + 4 \times (10 3)$ ?
  - A 18
  - B 28
  - C 32
  - D 46
- 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
  - В
  - C 7

6

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 ÷ 23?
  - A 150
  - B 170
  - C 183
  - D 200
- 10 What is the approximate answer to
  - $83243 \times 188$ ?
  - A 8 000 000
  - B 15 808 000
  - C 16 000 000
  - D 15 649 684
- What does  $\frac{4}{11} + \frac{2}{11}$  equal?
  - A  $\frac{6}{11}$
  - $\mathbf{B} = \frac{6}{22}$
  - $C = \frac{8}{11}$
  - D  $\frac{8}{22}$

12

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

equal?

- В
- $\mathbf{C}$
- 13

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

- A 0.66
- В 4.33
- C 4.66
- D 4.67

14 The conversion of 0.8 to a fraction is:

- A 100
- $\mathbf{B}$
- $\mathsf{C}$
- $\mathbf{D}$

15

The answer to 5.73 - 0.08 is:

- 4.93 Α
- В 5.65
- C 5.71
- D 6.32

16

Evaluate  $78.34 \times 2.1$ . The answer is:

- Α 80.44
- В 156.44
- C 164.514
- D 1645.14

**17** The answer to

$$\frac{2}{3}$$
 of 300 ÷ (32 ÷ 8) + 9 - 2 is:

- A 24
- В 50
- C 57
- D 59

18 Which of these is a true number sentence?

- Α  $50 - 4 \times (6 + 2) - 7 = 11$ 
  - $(50-4)\times 6+2-7=11$
  - $50 (4 \times 6) + 2 7 = 11$ C
- $50 4 \times 6 + (2 7) = 11$

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:

- Α \$3.75
- В \$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?

- Α
- $\mathbf{B}$
- $\frac{1}{7}$   $\frac{2}{7}$   $\frac{3}{7}$   $\frac{4}{7}$ D

- 21 Ken wants to share his 24 toys between his 3 friends. Each friend will receive:
  - Α 3 toys
  - В 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?

- 10 Α 8
- В  $\overline{16}$
- $\mathbf{C}$
- D
- 23 Peter sold 0.82 of his cap collection. What fraction is this?
  - 82 Α 100
  - 8 В 100
  - 82 C 10
  - 8.2 D 100
- 24 In the previous question, Peter had 50 caps to begin with. How many caps does he still have?
  - A 6
  - $\mathbf{B}$ 7  $\mathbf{C}$
  - D
- 8 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?
  - 11 A <del>18</del>
  - 22 В 7
  - 18 C 11
  - D 11
- 26 The number 1 is:
  - a prime number A
  - В a composite number
  - C a multiple of 6
  - D a factor of 13
- 27 The number 14 is:
  - Α a prime number
  - В a composite number
  - C a multiple of 28
  - D a factor of 2
- What is  $16^2 8^2$ ? 28
  - 192 Α
  - 64 В
  - $\mathbf{C}$ 16
  - D 8
- 29 Which of the following is a proper fraction?
  - A
  - 5/3 3/5
  - $\mathbf{C}$
  - D 7.42

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

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

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?

## Number skills

Non-calculator questions

- 1 Find an approximate answer to the following. 272 + 3072 + 36 + 82371
- 2 The weather forecast predicted that over the next 11 months it would rain 17 mm per month. Approximately how much rain might fall?
- 3 Jane eats  $\frac{3}{8}$  of her pizza for lunch and  $\frac{2}{8}$  for dinner. What amount is left over?
  - Α
  - $\mathbf{B}$
  - $\frac{2}{8}$   $\frac{3}{8}$   $\frac{4}{8}$   $\frac{5}{8}$ C
  - D
- 4 Is the following statement true or false?

$$\frac{12}{10} - \frac{3}{5} + \frac{2}{15} = \frac{11}{15}$$

What might be the missing digits? 5

$$\frac{\square}{12} + \frac{4}{12} = \frac{\square}{12}$$

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

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

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

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

- If  $\frac{3}{5}$  is subtracted from a number to give a result of  $\frac{2}{3}$ , what is the number?
- Two identical fractions add to give  $\frac{1}{3}$ . What might the 2 fractions be?

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Non-calculator questions

1 What are the missing numbers?

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+ 25

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- What numbers could be added to 427 to make it divisible by 10?
  Give 2 possible solutions.
- A number is divided by 6 and the remainder is 3. What might the number be? Give 2 possible solutions.
- 4 What could the missing numbers be?

2□9

-<u>||5||</u> 1 3 5

- 5 List all the factors of 36.
- Use order of operations to calculate the following.

 $240 \div 4 + 15 - 33$ 

7 Use order of operations to calculate the following.

 $(412 - 352) \div (41 - 32 + 3)$ 

- 8 (a
  - (a) Write all the factors of 12.
  - (b) Write all the factors of 15.
  - (c) Write all the common factors of 12 and 15.
  - (d) Write the highest common factor of 12 and 15.

#### 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
- (b) write all the multiples of 3
- (c) write the common multiples of 2 and 3
- (d) write the lowest common multiple of 2 and 3.

# 10 Evaluate the following.

$$\sqrt{36} + 0.7^2 - \frac{1}{2} \times \sqrt{4}$$

What is twelve squared equivalent to?

7, 21, 35, 42 1, 2, 3, 4

What is 18 + 4 × (10 - 3)?

A 18
B 28
C 32
O 46

What is the approximate answer to

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20

nat are the factors of 12?

4, 12, 24, 36 4, 8, 12, 24 3, 4, 5, 6

What is the highest common factor of 20 and 40?
A 2
B 4

83243 × 188? What is the approximate answer to 8 000 000 15 808 000 ) 16 000 000 15 649 684

Exact

What does  $\frac{4}{11}$  $\frac{2}{11}$  equal?

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1.834

What is the lowest common multiple of

2182188156

What is the square root of 81?

correct to 2 decimal places is:

A 0.66

B 4.33

C 4.66

D 4.67

1000 8

**(b)** 4 | 3

answer to 5.73 - 0.08 is:

164.514 156.44 80.44 What does the division,  $6\frac{1}{5} \div \frac{7}{10}$ 

6

4 17 8 6 7 6 7 6 10 6 33

The conversion of  $4\frac{2}{3}$  to a decimal

The conversion of 0.8 to a fraction is:

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Evaluate  $78.34 \times 2.1$ . The answer is:

 $\Theta$ 

Ken went to the fruit market and 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

Sentence:  $\sqrt{2}$  :50 - 4 × (6 + 2) - 7 = 11 B (50 + 4) × 6 + 2 - 7 = 11 C :50 - (4 × 6) + 2 - 7 = 11

 $50-4\times6+(2-7)=11$ 

Which of these is a true number

The total cost of the items are:

A \$3.75

B \$4.87

C \$5.89

© \$9.06 **@**∂ ¤ >

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

The answer to

 $\frac{2}{3}$  of 300 + (32 + 8) + 9 - 2 is:

മറഎ Ken wants to share his 24 toys between his 3 friends. Each friend will receive: 10 toys 12 toys 8 toys 3 toys

My denominator is a prime number.

My numerator is a multiple of 11. The sum of the numerator and the

What fraction am I? denominator is 29. I am an improper fraction.

30

each parent get? They decide to share the remainder with their mum and dad. What fraction will Jon and Kate eat  $\frac{3}{8}$  of a chocolate cake. 10 8 10 10 10 10 10 10

22

- The number 1 is: 2 1 2 1 2
- 26 a multiple of 6 a factor of 13 a prime number a composite number
- 13 The number 14 is: a composite number a multiple of 28 a factor of 2 a prime number

23

Peter sold 0.82 of his cap collection.

What fraction is this?

5 | S ∞ | S S | S

100 82

- 8 ნ ი ¤**©** What is 162 - 827 64 192 8 64 8 76
- 23 Which of the following is a proper traction?

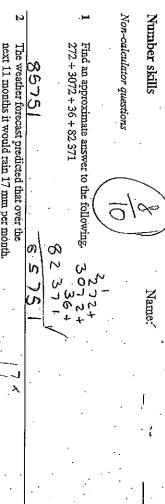
does he still have?

caps to begin with. How many caps In the previous question, Peter had 50

0-10

- over? fraction of the original pizza was left of the remainder for afternoon tea. What Sam ate  $\frac{2}{5}$  of his pizza for lunch and  $\frac{2}{3}$ ري ال WIN alla (v)
- Find  $\frac{3}{4}$  of  $\frac{1}{2}$  of 6.

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Is the following statement true or false? FaISEX

3612 3 16 3 4 11

10 5 1530 15 Jane eats  $\frac{3}{8}$  of her pizza for lunch and  $\frac{2}{8}$  for The weather forecast predicted that over the next 11 months it would rain 17 mm per month. Approximately how much rain might fall? What might be the missing digits? 12 + 4 = 13 V What amount is left over? 187 mm

10

result of  $\frac{2}{3}$ , what is the number?

If  $\frac{3}{5}$  is subtracted from a number to give a

(n/V

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might the 2 fractions be? 1

Two identical fractions add to give  $\frac{1}{3}$ . What

10×10

जार  $\frac{2}{5}$ ,  $\frac{3}{4}$ ,  $\frac{7}{20}$ ,  $\frac{23}{20}$ Evaluate  $3\frac{2}{3} \div \frac{5}{9}$ . gives a result of 3 9 number sentence. Use 3 of the following fractions to make a true What mixed numeral, when multiplied by  $2\frac{2}{5}$ , 80 1000 801 **375** 

# Number skills

Non-calculator questions

What are the missing numbers?



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

Give 2 possible solutions. 3, 13/

What could the missing numbers be? 259 / , , , ,

Give 2 possible solutions. 39, 15

3. What might the number be?

A number is divided by 6 and the remainder is

135

List all the factors of 36.

2,3,4,9,12,18,36, Use order of operations to calculate the

Use order of operations to calculate the

following:  $^{12}$  (412 - 352) + (41 - 32 + 3) - 10 5

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Write all the factors of 12: Write all the factors of 15.

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 2,416,78,10,12
(b) write all the multiples of 3 3,6,9,12

write the common multiples of 2 and 3 6,12,

write the lowest common multiple of 2 and 3. G/

 $\sqrt{36} + 0.7^2 - \frac{1}{2} \times \sqrt[4]{4}$ Evaluate the following.

1.08X

200 50 0

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Write all the common factors of 12 and 15. 60, 61, 3

Write the highest common factor of 12 and 15. 3.

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