

BASIC OPERATIONS

YEARS 7 AND 8

A CALCULATOR MAY NOT BE USED

- 1 $\frac{1}{10}$ of $503000 \div 10000$ is equal to:
- A 5.03 B 50.3 C 503 D 5030
- 2 $1210 \div 110$ is equal to:
- A 1.1 B 11 C 110 D 1100
- 3 The place value of 8 in 1 286 400 is:
- A hundreds of thousands B tens of thousands
C thousands D hundreds
- 4 Which of the following lists of numbers contain numbers listed from the smallest to the largest?
- A $\frac{1}{443}$ $\frac{1}{434}$ $\frac{1}{344}$ B 201 210 102
- C $1\frac{3}{4}$ $1\frac{7}{8}$ $1\frac{9}{20}$ D 0.701 0.0999 0.799
- 5 The sum of these numbers: one thousand and fifty-one, thirty-nine and four thousand and twenty-two, is equal to:
- A 4 222 B 1 522 C 5 112 D 5 122
- 6 The product of 10, 13 and 4 is:
- A 27 B 170 C 420 D 520
- 7 The difference between 23428 and 759 is:
- A 24 187 B 23 669 C 22 779 D 22 669
- 8 Which one of the following numbers is divisible by 9?
- A 49 642 B 1 046 628 C 49 909 D 37 465

- 9 Which one of the following lists consists only of prime numbers?
- A 2, 3, 4, 5 B 1, 2, 10, 11
C 2, 3, 11, 13 D 7, 9, 11, 13
- 10 Which one of the following is a list of multiples of 8?
- A 1, 2, 4, 8 B 4, 8, 32, 64
C 64, 72, 88, 96 D 0, 8, 16, 24
- 11 Which one of the following is the best estimate of the answers of 7099×81 ?
- A 640 000 B 560 000
C 64 000 D 56 000
- 12 Which one of the following is the answer to : $(38 - 19) \times (2 + 3) + 16 \div 4$?
- A $4\frac{3}{4}$ B 7 C $27\frac{3}{4}$ D 99
- 13 At the Post Office, Jill bought fifty six 45 cent stamps to post out invitations to a big Surprise Party. The cost of the stamps was:
- A \$4.95 B \$24.20 C \$25.20 D \$49.50
- 14 Whenever you play a note on a guitar or other musical instrument, the sound travels outwards at about 330 metres per second.
- Assuming that its speed is unchanged, how far would the sound have reached in one minute?
- A 5.5 metres B 390 metres
C 1980 metres D 19.8 kilometres
- 15 The following boxes represent missing numbers in a number sentence
- $$\square - \square \div \square = 7$$
- In order from left to right, the missing numbers are:
- A 18, 4, 2 B 12, 15, 3
C 9, 2, 2 D 3, 4, 1
- 16 Which one of the following does not equal 1?
- A $3 \times 4 \div (2 + 10)$ B $15 \div 5 - 8 \div 4$
C $24 \div (2 + 4) \times 4$ D $(5 \times 4 + 2) \div 11 - 1$

- 17 The prime factors of 48 are:
- | | | | |
|---|---|---|--------------------------------|
| A | 1×48 | B | 1, 2, 3, 4, 6, 8 |
| C | $3 \times 2 \times 2 \times 2 \times 2$ | D | $1 \times 2 \times 3 \times 8$ |
- 18 The next number in this pattern 460, 435, 410 _____ is:
- | | | | | | | | |
|---|-----|---|-----|---|-----|---|-----|
| A | 400 | B | 395 | C | 390 | D | 385 |
|---|-----|---|-----|---|-----|---|-----|
- 19 $7616 \div 64$ is equal to:
- | | | | | | | | |
|---|--------------------|---|-----|---|----|---|---------------|
| A | $118\frac{63}{64}$ | B | 119 | C | 19 | D | none of these |
|---|--------------------|---|-----|---|----|---|---------------|
- 20 $29\overline{)1743}$ is equal to:
- | | | | | | | | |
|---|-----------------|---|-----------------|---|----|---|------------------|
| A | $6\frac{3}{29}$ | B | $60\frac{1}{3}$ | C | 63 | D | $60\frac{3}{29}$ |
|---|-----------------|---|-----------------|---|----|---|------------------|
- 21 The lowest common multiple of 8, 12 and 20 is:
- | | | | | | | | |
|---|---|---|---|---|----|---|-----|
| A | 2 | B | 4 | C | 40 | D | 120 |
|---|---|---|---|---|----|---|-----|
- 22 The highest common factor of 24 and 60 is:
- | | | | | | | | |
|---|---|---|---|---|----|---|-----|
| A | 4 | B | 6 | C | 12 | D | 120 |
|---|---|---|---|---|----|---|-----|
- 23 The quotient of 17937 and 9 is:
- | | | | | | | | |
|---|-------|---|--------|---|--------|---|---------|
| A | 1 993 | B | 17 928 | C | 17 946 | D | 161 433 |
|---|-------|---|--------|---|--------|---|---------|
- 24 One Saturday, a pavlova bakery made 7 dozen pavlovas. Each pavlova contained the whites of half a dozen eggs. Each egg weighed 65 grams. The total weight of eggs used that Saturday (assuming none broke!) is closest to:
- | | | | |
|---|--------------|---|---------------|
| A | 500 grams | B | 6 kilograms |
| C | 33 kilograms | D | 330 kilograms |
- 25 4 801 999, rounded off to the nearest 100 is:
- | | | | |
|---|-----------|---|-----------|
| A | 4 800 000 | B | 4 801 900 |
| C | 4 801 000 | D | 4 802 000 |
- 26 When Tim was timed at his School Sports, it was found he ran 400m in 1 minute 49.3 seconds. This is closest to:
- | | | | |
|---|-------------|---|-------------|
| A | 1.4 minutes | B | 1.5 minutes |
| C | 1.7 minutes | D | 1.8 minutes |

- 27 The best approximation for $48 \div 4758$ is:
- A 0.0001 B 0.001 C 0.01 D 0.1
- 28 In a class survey it was discovered that Tim spent on average 2 hours each day watching TV. Suppose that he watched it for 2 hours a day for the next 60 years, and that the total time spent watching TV for 60 years was compressed into one time block of continuous watching, with no breaks for food, sleep or other activities. This total time would amount to:
- A 730 days B 2.5 years
C 5 years D 10 years
- 29 The perfect square in the following list is:
- A 4000 B $2\frac{46}{49}$
C 250 D $\frac{8}{25}$
- 30 In a shearing shed, Tom was able to shear 4 times as many sheep as Jim and Pete sheared 5 times as many sheep as Jim, who was very inexperienced. Shearing is done in 4 blocks of time over the day. The 3 shearers between them managed to shear 150 sheep in each block of time. Over the whole day, the number of sheep Jim was able to shear was:
- A 50 B 60
C 200 D 240

ANSWERS TO BASIC OPERATIONS

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