Year 5 NAPLAN-style numeracy practice test

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Name: _____ Date: _____

No calculator. Use paper for working. Suggested time: about 25 minutes.

Question 1

What is the value of the digit 7 in the number 47 382?

(A) 7

(B) 7 000

(C) 700

(D) 70 000

Question 2

A school tuck shop sells 48 pies each day for 5 days. How many pies does it sell in total?

Answer: _____

Question 3

A rectangular football oval is 85 metres long and 60 metres wide. What is the perimeter of the oval in metres?

Answer: _____

Question 4

A clock shows 3 o'clock. The angle between the hour hand and the minute hand is best described as which type of angle?

(A) Straight

(B) Acute

(C) Right

(D) Obtuse

Question 5

A bag contains 3 red marbles, 2 blue marbles and 1 yellow marble. If one marble is chosen at random, what is the probability of choosing a blue marble?

(A) ½

(B) ⅓

(C) ⅙

(D) ⅔

Question 6

Which of the following numbers is the largest?

4.7, 4.07, 4.73, 4.37

(A) 4.37

(B) 4.73

(C) 4.07

(D) 4.7

Question 7

Look at the number pattern below.

6, 11, 16, 21, 31

What is the missing number?

Answer: _____

Question 8

A swimming carnival at Bondi Aquatic Centre starts at 13:15 and finishes at 15:45. How long does the swimming carnival last?

(A) 3 hours 15 minutes

(B) 3 hours 30 minutes

(C) 2 hours 30 minutes

(D) 2 hours 15 minutes

Question 9

A shape is reflected across a vertical mirror line. Which of the following statements about the reflected shape is correct?

(A) It is smaller than the original shape.

(B) It is larger than the original shape.

(C) It is the same size and shape but faces the opposite direction.

(D) It is rotated 90 degrees from the original shape.

Question 10

Which fraction is equivalent to ¾?

(A) 9/16

(B) ⅘

(C) 6/10

(D) 6/8

Question 11

A farmer picks 336 apples and packs them equally into boxes of 8. How many boxes does the farmer fill?

Answer: _____

Question 12

Which of the following numbers is a factor of 36?

(A) 9

(B) 8

(C) 14

(D) 10

Question 13

The table below shows the number of goals scored by four players in a netball season.

Player	Goals
Aisha	34
Bridie	27
Carmen	41
Donna	38

How many more goals did Carmen score than Bridie?

(A) 7

(B) 14

(C) 11

(D) 4

Question 14

A school vegetable garden is in the shape of a rectangle. It is 12 metres long and 7 metres wide. What is the area of the garden in square metres?

Answer: _____

Question 15

Lachlan ate 2/8 of a pizza and his sister ate ⅜ of the same pizza. What fraction of the pizza did they eat altogether?

(A) ¼

(B) 5/16

(C) 6/8

(D) ⅝

Question 16

A number pattern follows a rule. The first five terms are shown below.

4, 12, 36, 108,

What is the missing fifth term?

Answer: _____

Question 17

Zara is setting up chairs in rows for a school assembly. She wants exactly 9 chairs in every row with no chairs left over. She has 214 chairs. Which of the following numbers of chairs, all less than 214, can she arrange perfectly into rows of 9?

(A) 189

(B) 196

(C) 205

(D) 200

Question 18

On a grid, a triangle has one vertex at point C3 (column C, row 3). The triangle is translated (slid) 4 columns to the right and 2 rows up. Which grid reference does that vertex move to?

(A) G5

(B) G3

(C) G1

(D) E5

Question 19

A spinner is divided into 8 equal sections. Five sections are green, two sections are yellow, and one section is red. A student spins the spinner once. Which of the following best describes the probability of landing on yellow?

(A) It is less than ½ but greater than 0

(B) It is greater than ½

(C) It is exactly ½

(D) It is impossible (0)

Question 20

A train departs Melbourne at 08:47 and arrives in Geelong at 09:35. How many minutes does the journey take?

Answer: _____

Year 5 NAPLAN-style numeracy: answers and worked solutions

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Question 1: (B) 7 000

In 47 382, the digits from right to left are: 2 ones, 8 tens, 3 hundreds, 7 thousands, 4 ten-thousands. The digit 7 is in the thousands place, so its value is 7 × 1000 = 7,000. **Answer:** 7 000

Question 2

Multiply 48 × 5. 40 × 5 = 200 and 8 × 5 = 40. 200 + 40 = 240. **Answer:** 240

Question 3

Perimeter of a rectangle = 2 × (length + width) = 2 × (85 + 60) = 2 × 145 = 290 metres. **Answer:** 290

Question 4: (C) Right

At 3 o'clock the hour hand points to 3 and the minute hand points to 12, making an angle of exactly 90°. An angle of exactly 90° is a right angle. **Answer:** Right

Question 5: (B) ⅓

There are 3 + 2 + 1 = 6 marbles in total. 2 of them are blue, so the probability is 2/6 = ⅓. **Answer:** ⅓

Question 6: (B) 4.73

Compare the tenths digit first. 4.07 has 0 tenths, 4.37 has 3 tenths, 4.7 has 7 tenths, and 4.73 has 7 tenths.

Both 4.7 and 4.73 have 7 tenths, so compare the hundredths: 4.7 = 4.70 has 0 hundredths, 4.73 has 3 hundredths.

So 4.73 > 4.70.

Answer: 4.73

Question 7

The pattern adds 5 each time: 6, 11, 16, 21, ..., 31.

21 + 5 = 26.

Check: 26 + 5 = 31. ✓

Answer: 26

Question 8: (C) 2 hours 30 minutes

From 13:15 to 15:15 is 2 hours.

From 15:15 to 15:45 is another 30 minutes.

Total duration: 2 hours 30 minutes.

Answer: 2 hours 30 minutes

Question 9: (C) It is the same size and shape but faces the opposite direction.

A reflection flips a shape across a mirror line. The reflected shape is exactly the same size and shape as the original, but it faces the opposite direction (like a mirror image).

The size does not change, and it is not rotated.

Answer: It is the same size and shape but faces the opposite direction.

Question 10: (D) 6/8

Multiply both the numerator and denominator of ¾ by 2:

(3 × 2)/(4 × 2) = 6/8.

Check the others: 6/10 = ⅗, 9/16 does not simplify to ¾, and ⅘ is not equal to ¾.

Answer: 6/8

Question 11

Divide the total number of apples by the number per box.

336 ÷ 8 = 42

Answer: 42

Question 12: (A) 9

A factor of 36 divides into 36 with no remainder.

36 ÷ 8 = 4 remainder 4 (not a factor)

36 ÷ 9 = 4 exactly, so 9 is a factor.

36 ÷ 10 = 3 remainder 6 (not a factor)

36 ÷ 14 = 2 remainder 8 (not a factor)

Answer: 9

Question 13: (B) 14

Subtract Bridie's goals from Carmen's goals.

41 - 27 = 14

Answer: 14

Question 14

Multiply length by width to find the area.

12 × 7 = 84

Answer: 84

Question 15: (D) ⅝

Add the numerators and keep the denominator the same.

2/8 + ⅜ = ⅝

Answer: ⅝

Question 16

Find the rule by dividing each term by the one before it: 12 ÷ 4 = 3, 36 ÷ 12 = 3, 108 ÷ 36 = 3. The rule is multiply by 3 each time. 108 × 3 = 324. **Answer:** 324

Question 17: (A) 189

A number is a multiple of 9 when its digits add up to 9 (or a multiple of 9). Check each: 1+8+9=18 which is a multiple of 9, so 189 = 9 × 21 ✓. 1+9+6=16 (no). 2+0+0=2 (no). 2+0+5=7 (no). **Answer:** 189

Question 18: (A) G5

Moving 4 columns to the right from column C: C, D, E, F, G, so column G. Moving 2 rows up from row 3: row 5. The new position is G5. **Answer:** G5

Question 19: (A) It is less than ½ but greater than 0

There are 2 yellow sections out of 8, so the probability of yellow is 2/8 = ¼. Since ¼ is greater than 0 but less than ½, the first option is correct. **Answer:** It is less than ½ but greater than 0

Question 20

From 08:47 to 09:35. Count from 08:47 to 09:00, that is 13 minutes. Then from 09:00 to 09:35 is 35 minutes. 13 + 35 = 48 minutes. **Answer:** 48