

THT WORKSHEETS

NAPLAN Preparation

Year 5 Numeracy

Learning Pack

Number, Measurement & Mathematical Reasoning

Student Name: _____

Date: _____

Recommended Time: 50 minutes

Why This Learning Pack Matters

NAPLAN Numeracy rewards students who can think mathematically, choose efficient strategies and solve unfamiliar problems. This Learning Pack is designed to strengthen those skills while remaining aligned with the Year 5 Australian Curriculum.

Instructions

- Read each question carefully.
 - Show your working for all short-answer questions.
 - Choose the best answer for multiple-choice questions.
 - Check your answers before moving on.
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Question 1

Estimate the answer before calculating exactly.

$$396 + 608$$

Estimate: _____

Exact answer: _____

Was your estimate an overestimate or an underestimate?

Question 2

A bakery packs **18 muffins** into each tray.

A school orders **145 muffins**.

- a) What is the smallest number of trays needed?
 - b) How many empty spaces will there be in the final tray?
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Question 3

A class has **32 students**.

Three-quarters of the class submitted their homework on Monday.

How many students submitted their homework on Monday?

Question 4

A movie begins at **6:45 pm**.

It runs for **1 hour 35 minutes**.

At what time does the movie finish?

Question 5

A rectangle has a length of **24 cm** and a width of **15 cm**.

Its length is increased by **6 cm**.

What is the new area of the rectangle?

Question 6

A sports shop advertises:

Buy 3 pairs of socks and get the 4th pair free.

One pair costs \$8.

How much will a customer pay for **12 pairs**?

Question 7

A water tank contains **1,250 L** of water.

Each day, **175 L** is used.

How much water remains after **5 days**?

Question 8

The table shows the number of books read by four classes.

Class	Books Read
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5A	68
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5B	74
----	----

5C	81
----	----

5D	77
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Each book earns **3 reading points**.

How many reading points were earned altogether?

Question 9

A square has a perimeter of **48 cm**.

Another square has a perimeter that is **12 cm greater**.

What is the area of the second square?

Question 10

A family spends the following each week.

Expense	Cost
Groceries	\$215
Fuel	\$84
Electricity	\$97
Internet	\$39

Their weekly income is **\$580**.

a) How much money remains after paying these expenses?

b) They save **40%** of the remaining money.

How much do they save?

Question 11

A roll of ribbon is **9 metres** long.

It is cut into pieces of **40 cm** each.

How many complete pieces can be cut?

How much ribbon remains?

Question 12

A cyclist rides at an average speed of **24 km/h**.

She rides for **2 hours 30 minutes**.

How far does she travel?

Question 13

The graph shows students' favourite sports.

Sport	Students
Soccer	16

Sport	Students
Basketball	13
Swimming	18
Tennis	9

How many more students chose **Swimming or Soccer** than **Basketball or Tennis**?

Question 14

A number:

- is between **600 and 700**
- is divisible by **5**
- is divisible by **9**

Find **all** possible numbers.

Question 15

A school buys exercise books in packs of **32**.

There are **915 students**.

Each student receives one exercise book.

- a) What is the smallest number of packs the school must buy?
- b) How many exercise books will be left over?
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Question 16

A map uses the scale:

1 cm : 250 m

Two playgrounds are **9.2 cm** apart on the map.

What is the actual distance between them in **kilometres**?

Question 17

A shop advertises two offers on lunch boxes.

Option A

20% off the regular price of **\$45**.

Option B

Buy **2 lunch boxes** for **\$76**.

Emma wants to buy **2 lunch boxes**.

Which option is cheaper?

Show your calculations.

Question 18

The temperatures over five days were:

17°C

21°C

20°C

23°C

19°C

Find:

a) the mean temperature

b) the range

Question 19

A builder has **180 square paving tiles**.

He wants to arrange **all** of them into a rectangle.

Give **two different possible rectangular arrangements**.

THT.

Which arrangement has the **greater perimeter**?

Show your working.

Question 20

Sophie says:

"Every number that is divisible by 12 must also be divisible by 3 and by 4."

Is Sophie correct?

Explain your reasoning using examples.

End of Learning Pack

Check all your answers before reading the **Learn With the Solutions** booklet.