

You can **use a fact you know** to help you multiply nearby numbers. For example, when you see 11×19 think 11×20 less 11 = 209.



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You can use a **place-value strategy** to multiply numbers with two or more digits. For example, when you see 7×89 think 7×80 plus 7×9 .



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1





You can count on in different ways to **work out the change** you will get. For example, if you have \$46.30 and buy an item for \$24.60 think \$24.60 + <u>40c</u> + <u>\$15</u> + <u>\$6.30</u> = \$46.30. The change will be <u>\$21.70</u>.

* Answers will vary.

USING UNITS OF MEASUREMENT

6 Show the different ways to write these amounts.

| Whole number | Common fraction | Decimal fraction | |
|-----------------|--------------------|---------------------|--|
| 500 mL | <u> </u> 2 L | 0.5 L | |
| 250 mL | - 1 | 0.25 L | |
| 750 mL | <u>3</u> Ļ | 0.75 ∟ | |
| 200 mL | 5 | 0.2 L | |
| 90 mL | <u>9</u> 100 L | 0.09 L | |
| | | | |

7 Write each capacity as a decimal fraction of a litre.



DATA REPRESENTATION & INTERPRETATION

Players from Different Football Codes Rugby League Rugby Union E PROBABILIT Mark Gasnier Cooper Cronk Justin Hodges Will Genia Sonny Bill **Brett Stewart** James O'Connor Williams Benji Kurtley Marshall Beale 0 Karmichael Hunt Israel Ray Folau Smith **Daniel Rich** Gary Ablett Jonathan Brown Tim Cahill AFL Harry Kewell Which number is **not** divisible by 3?

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8 Draw lines to show the position on the scale.



Estimate * ° Exact 110 ° Exact 30 °

a. Name the only player who has played AFL, Union and League.

Karmichael Hunt

- **b.** Israel Folau has played AFL and League.
- **c.** Name the players who have played Union and League.

Mark Gasnier and Cooper Cronk

d. Name the players who have only played AFL.

Gary Ablett and Jonathan Brown

e. What does the diagram tell you about Tim Cahill and Harry Kewell?

They have not played AFL, Union or League.

- f. Write these players onto the diagram.
 - Sonny Bill Williams League and Union

DATE

- Kurtley Beale Union
- Benji Marshall League
- Daniel Rich AFL



MEASUREMENT & GEOMETRY

10 Look at this 3-ring Venn diagram.

NUMBER È ALGEBRA

1

3

| NA | ME | | | | STEP IT | |
|------|-------------------|--------------------|--------------------|-------------------------|-------------------|---------------------|
| | ADDITION & SUB | TRACTION | | MULTIPLICATIO | V É DIVISION | |
| НS | 8 + 6 = 14 | 7 + 8 = 15 | 8 - 5 = 13 | 5 × 4 = 20 | 15 ÷ 5 = 3 | 60 ÷ 5 = 12 |
| MAT | 8 + 8 = 16 | 5 + 14 = 9 | 19 - 15 = 4 | 9 × 4 = <mark>36</mark> | 25 ÷ 5 = 5 | IOO ÷ 5 = 20 |
| TAL | + 5 = 16 | 6 + 16 = 22 | 24 - 7 = 17 | 4 × 1 = 4 | 40 ÷ 5 = 8 | 65 ÷ 5 = 13 |
| NEN. | 7 + L = 11 | 9 + 14 = 23 | 25 - 13 = 12 | 7 × 4 = 28 | 10 ÷ 5 = 2 | 55 ÷ 5 = 11 |
| | 5 + 9 = 14 | 5 + 18 = 23 | 23 – 8 = 15 | 10 × 4 = 40 | 30 ÷ 5 = 6 | 150 ÷ 5 = 30 |

NUMBER & PLACE VALUE

1 List the first 10 multiples of each number.



PRIME 2 5 3 13 19 31 FACTORS 1 2 3 5 7 Ш 13 19 17 31

Draw jumps to label the multiples of 2 a. on the first number line and multiples of 5 on the second.



- 4 a. List the first 3 common multiples of these numbers. Use your answers to Question 1.
 - (3) and 4 36 (6) and 9 (4) and 8 6
- Loop the lowest common multiple for each pair b. of numbers above.

MONEY & FINANCIAL MATHEMATICS

5 Calculate how much more is needed to buy the item. Show your working.



6 Use a calculator to work out how much is left in the wallet after buying these items.



The **multiples** of a number are the numbers you say when you start at 0 and count in steps of that number. For example, the multiples of 4 are 4, 8, 12, 16, 20, 24, and so on.



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NAME

1





Add the length and the width then multiply by 2 to work out the **perimeter** of an oblong. Multiply the length by the width to work out the **area** of an oblong.

* Answers will vary.





Heads

this net is folded, which face will **not** be ng Face A? A B C D F

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Face

DATE

Heads

Tails



Ц

4

You can find an **equivalent fraction** by multiplying (or dividing) the numerator and denominator by the same number.

× 7

3

×

P

USING UNITS OF MEASUREMENT

5 Draw the other oblongs that have an area of 20 cm² below. Then complete the table.

| Length | Width | Area | Perimeter |
|--------|-------|--------------------|-----------|
| 20 | 1 | 20 cm ² | 42 cm |
| 10 | 2 | 20cm ² | 24 cm |
| 5 | 4 | 20cm ² | 18 cm |





SHAPE

7 Complete the net for a pentagonal-based prism.





a. Use the data in this table to complete the pie chart.

| Netball | Softball | Swimming | Soccer |
|----------|----------|----------|--------|
| JHT IIII | JHT I | | |

b. Write a fraction of the total to describe each sport.

| Netball | Softball | Swimming | Soccer | |
|----------------|---|----------------|----------------------------------|--|
| <u>9</u> 20 | $\frac{6}{20} \text{ or } \frac{3}{10}$ | <u>3</u> 20 | $\frac{2}{20}$ or $\frac{1}{10}$ | |





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31

When you need to know the **price of one item** in a bulk pack, you divide the pack price by the number of items in the pack.

1



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NAME

1





Shapes that have 1 or more reflection lines have **reflective symmetry**. Shapes that take 2 or more part turns to get back to a starting position have **rotational symmetry**.



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NUMBER & PLACE VALUE

36 + 48 =

44 + 37 =

39 + 25 =

6

9

2

6

9

4 and

6

4

15

16

VUMBER & ALGEBRA

1 Shade the correct answer.

odd

odd

odd

27

17

1 or 2

17

18

19

20

21

even

even

even

B6

5

and 7

45 54

12 × 8 =

16 × 9 =

 $13 \times 5 =$



\$ 2.15

\$ 1.95

11 Complete these division patterns.

80

8

5 for **\$9.75**

PATTERNS & ALGEBRA

 $2400 \div 3 = 800$

 $2400 \div 30 =$

 $2400 \div 300 =$

\$ 2.30

\$ 2.85

90

9

3 for **\$8.55**

3600 ÷ 4 = 900

3600 ÷ 40 =

3600 ÷ 400 =



* Answers will vary.

