# **MATHEMATICS**

Year 6/Primary 7

# PRIM-ED PUBLISHING

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# PARENT PACK

# MONDAY

# 1. $\frac{3}{4} - \frac{1}{2} =$

- **2.** 4.25 x 3 =
- 3. Draw a 90° turn clockwise.



- **4.** 0.02 + 0.04 =
- **5**. 500 x 9
- **6.** 6.432 + 1.203 + 2.264 =
- 7.  $10^2 > 110$
- true false
- 8. 399965 7 =
- **9**. 73.85 21.42 =
- 10. Round 6815 (nearest thousand).
- 11. Write the numeral one hundred and ten thousand and ten.
- **12.** Sally shared 36 apples between 6 people.



**14.** Is this octagon regular or irregular?



- **15.**  $20\% = \frac{1}{4}$
- true false
- **16.** 12<sup>2</sup> =
- 8 cm 5 cm
- **17.** Area = cm<sup>2</sup>
- **18.** 5 x 0.8 =
- 19. A cube has vertices.
- **20.**  $^{3}/_{5} = ^{1}/_{20}$

# **TUESDAY**

- 1.  $\frac{7}{8} \frac{1}{4} =$
- 2. Area = cm<sup>2</sup>



- **3**. 89.63 54.25 =
- **4.** 999 997 + 4 =
- **5**. 631 304 5 =
- 6.  $\frac{1}{5} + \frac{3}{5} =$
- 7. Julie has £150 and David has £250. How much altogether?
- 8. Write the numeral one hundred thousand.
- 9. Draw a 90° turn clockwise.



**10**. What are the chances of picking a king or jack from a pack of playing cards?

out of

- **11.** 1<sup>2</sup> =
- 12.  $^{1}/_{4}$  of 80 =
- 13. Round 24.02 to the nearest whole number.
- **14.** An equilateral triangle has equal sides.
- **15.** Circle which is symmetrical.

P

N

D

- **16.** 12 a.m. = 0000 hours 1200 hours
- 17.  $\frac{7}{2} = (mixed number)$
- **18.** 1550 + 350 =
- 19. What is the next prime number after 7? =
- 20. The place value of 3 in 13 200 is

## WEDNESDAY

- 1.  $\frac{6}{10} \frac{2}{5} =$
- 2. 10% of £50.00 = £
- 3. The number before 10 000 is
- 4.  $\frac{32}{5}$  = (improper fraction)
- 5. What shape is this?



- **6.**  $6.75 \times 2 =$
- 7. 20.000 7 =
- 8. If you stacked this shape would it make a  $\square$  prism or  $\square$  pyramid?

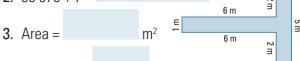


- $/_{12} = \frac{3}{4}$
- **10.** 7, 12, 9, 14, 11,
- 11. 4.032 + 4.635 + 8.232 =
- **12**. Area = 10 cm
- 13. Joseph has 500 football stickers. He gives 75 to Adam.
- 14.  $^{7}/_{10}$  of 90 =
- **15**. 60 x 70 =
- 16. Draw a net for a cube.
- **17**. 1520 hours =
- a.m./p.m.
- 18. Round 17 380 (nearest hundred).
- 19. The angles in an isosceles triangle are
  - acute right
- 20. Which unit would you use to measure the length of Great Britain?

  - m km

### **THURSDAY**

- 1.  $\frac{4}{6} \frac{1}{3} =$
- **2**. 99 973 + 7 =



- 4. 0.8 + 0.01 =
- **5**. 199 005 8 =
- 6. There are 20 chocolates per box. There are 6 boxes. How many chocolates altogether?



- 8.  $11^2 =$
- **9.** 5.105 + 10.621 + 5.273 =
- 10. 10% of £80.00 = £
- 11.  $\frac{1}{2} < \frac{1}{4}$
- true false
- 12. Will a hexagon and a square tessellate together?
- 13. Which scales would you use to weigh some grapes? kitchen bathroom
- **14.** 250 x 5 =
- 15. What 3-D shape has 2 triangles and 3 rectangles?

# The timetable shows daily flights from Dublin to London.

Flight	ZZ01	ZZ02	ZZO3	ZZ04
Depart Dublin	0630	1115	1600	2145
Arrive London	0745	1230	1715	2300

- 16. How long does each flight take to complete the iourney?
- 17. Which flight takes off at 11.15 a.m.?
- **18.** Which flight lands at 11 p.m.?
- 19. You need to be in London by 6 p.m. Which flight should you take?
- 20. You need to be in London by 12 noon. Will ZZ02 get you there in time?

# MONDAY

- 1. 20% of f50 =
- 2. Round 15 825 (nearest 1000).
- 3. If you have a piece of carpet 9 m by 2 m, how many square metres are there?

m<sup>2</sup>

- **4**. 999 992 + 9 =
- 5. Jeans cost £30. They have 10% off. The new price is
- **6**. 189 001 7 =
- 7. Write the numeral one million.
- 8.  $\frac{8}{10} \frac{2}{5} =$
- **9**. 5.45 x 2 =
- **10**. 10% of £100 =
- 11.  $5\overline{\smash{)}6.005} =$
- **12**. f100.00 f20.50 =
- degrees degrees
- **14.**  $^{3}/_{4} + ^{2}/_{4} = ^{5}/_{4} =$ (mixed number)
- **15.** 43/<sub>100</sub> = %
- **16.** 3.00 x 0.03 =
- 17. Draw a 180° turn anticlockwise.
- **18.** Kelly shares 75 badges between 3 people. How many badges each?
- **19.** 0.07 + 0.2 =
- 20. The diameter of a circle with a radius of 2.52 cm is cm

### **TUESDAY**

- 1. 50% of £50.00 =
- **2**. 999 993 + 8 =
- **3.** 95.26 62.08 =
- **4**. 3.92 x 3 =
- **5**. 10)300 =
- **6.** 268 808 10 =
- 7. Write the numeral one million one hundred.
- 8. Draw a 270° turn clockwise.



- 9. What 3-D shape has 4 triangles?
- 10. Your mum buys 40 L of petrol. If it cost 20p per litre, the total will be
- 11. £100.00 £40.50 =
- 12.  $^{3}/_{4} = ^{1}/_{12}$
- **13**. £7.00 x 4 =
- **14**. 5.402 + 6.253 + 7.314 =
- **15.** Write in ascending order.

7

0.07

**70** 

0.7

- **16.**  $^{4}/_{5}$  of 40 =
- **17.** 5% = /<sub>10</sub>
- **18.** Simon has 48 toy cars. He gives 5 to Ahmed. How many does Simon have left?



- 20. Perimeter of an oblong building 50 m by 45 m  $\,$ 
  - = |

# **WEDNESDAY**

This timetable shows daily trains from London to Cardiff.

Train	Departs London	Arrives Cardiff
А	0800	1105
В	1025	1330
С	1500	1810
D	1930	2235

- 2. How long does train A take?
- 3. Which train takes 3 hours 10 minutes?
- 4. Which train leaves London at 3 p.m.?
- 5. Which train arrives in Cardiff at 1.30 p.m.?
- **6.** You need to be in Cardiff by 3.30 p.m. Which train should you take?
- 7. You need to be in Cardiff by 5.30 p.m. Does train C get you in on time?
- **8.** If you ride your bike for a quarter of an hour and travel 4 km—how far will you ride in 2 hours?

km

- **9.** An isosceles triangle has equal sides.
- 10.  $\frac{2}{3} + \frac{2}{3} =$
- 11. Is 244 divisible by 9?
- **12.** 4.85 x 4 =
- **13**. The number after 129 999 is
- **14.** £100.00 £80.50 =
- **15.** Stacey has £12, John has £15 and Karen £18. How much altogether?
- **16.** This is a
- 17. Area =  $m^2$
- 18.  $^{18}/_{5} = (mixed number)$
- **19.** 0000 hours = a.m./p.m.
- **20.** Simplify <sup>15</sup>/<sub>18</sub>.

# **THURSDAY**

- 1. 5% of £50 =
- 2. Draw a net of a triangular prism.



- 4. Round 4.87 (nearest tenth).
- **5**. 999 996 + 7 =
- **6.**  $100 = 10^a$ , therefore a =
- **7**. 32 = x 4
- **8.** Jumpers cost £40. They have 25% off. The new price is
- 9.  $^{2}/_{2}$  of 27 =

30

10. Write in descending order.

0.3

3.3

0.03

- **12.** 85.63 24.25 =
- **13**. 10 \( \overline{450} =

11.  $9/_{12} - 3/_{6} =$ 

- 14. What shape is this?
- **15.** There are 6 apples in each bag. There are 10 bags. How many apples altogether?
- **16.** What is the cost of flour at 60p per 500 g if you buy 3 kg?
- 17.  $^{1}/_{4} + ^{3}/_{6} =$
- **18**. 6<sup>2</sup> =
- **19**. 15 000 6500 =
- 20. In 7.8, what is the place value of the 8?

# FRIDAY TEST Week 31

- 1.  $\frac{6}{9} \frac{2}{6} =$
- **2.** 4.75 x 3 =
- 3. Circle the symmetrical letter shape.
  - S K Z
- 4. 0.9 + 2 + 0.01 =
- **5.** Is 731 divisible by 9?
- **6.**  $998 \times 3 =$
- 7.  $\frac{1}{2} > \frac{1}{5}$ 
  - true false
- **8.** 2.103 + 3.522 + 4.274
- 9. Eilish shared 49 badges between 7 children. How many badges each?
- **10.**  $^{2}/_{_{3}}$  of 27 =
- **11**. 94.58 52.05 =
- 12.  $^{3}/_{4} = ^{1}/_{24}$
- - Area =
- **14.** Perimeter =
- **15.** 10% of £60 =
- **16.** 70 x 800 =
- 17. What is the next prime number after 17?

- **18**. 11<sup>2</sup> =
- 19.

Draw a 90° turn anticlockwise.

- 20. The place value of 7 in 714 323
- 21. The area of a wall 5 m by 2 m is
- 22. What is the total area of walls in a four-wall room when each wall is 5 m by 2 m?
  - $m^2$
- **23.** 12 p.m. =
  - 0000 hours 1200 hours
- **24.** 4 x 0.07 =
- 25. Kate has £250. She gives £120 to her mum. How much does Kate have left?

# FRIDAY TEST Week 32

- 1. 20% of £60 =
- 2. Is 274 divisible by 9?
- 3. Round 17 769 (nearest thousand).
- 4. A jacket costs £50. It has 10% off. The new price is
- **5.**  $\frac{3}{4} + \frac{3}{4} =$
- **6**.  $70 \times 90 =$
- **7**. 15 000 9500 =
- 8.  $9/_{10} 1/_{5} =$
- **9**. 10 \( \) 400 =
- 10. Does a nonagon or a decagon have 9 sides?
- 11. The place value of 3 in 2.3
- **12.**  $100 = 50 \times a$ ,

  - therefore a =
- 13. There are 15 sweets in a packet. There are 5 packets . How many sweets altogether?



- 14. If you bought 2 L of cool drink at 90p per 500 mL, how much would it cost?
- **15.** 3.412 + 2.035 + 1.432
- **16.** 63/<sub>100</sub> =
- 17. Write the numeral one million, one hundred and one.
- **18.** Simplify <sup>20</sup>/<sub>25</sub>.
- 19. Write in ascending order.
  - 9 0.09 0.9 0.19
- **20**. 4.25 x 5 = 21.
- This is a
- **22.** Area =
- 23. Perimeter =
- 24. Draw a 90° turn clockwise.
- **25.**  $^{29}/_{6} = (mixed number)$

# **NEW WAVE MENTAL MATHS Year 6/Primary 7 book – Answers**

### **WEEK 31 pages 62 – 63**

### Monday

- 1. <sup>1</sup>/<sub>4</sub>
  2. <u>12.</u>75
- 3.
- **4.** 0.06
- **5**. 4500
- **6.** 9.899
- 7. false
- **8**. 399 958
- **9**. 52.43
- **10**. 7000
- **11**. 110 010
- 12.  $36 \div 6 = 6$
- 13. £2.00
- 14. irregular
- **15**. false
- **16**. 144
- 17. 40 cm<sup>2</sup>
- 18. 4
- **19**. 8
- **20**. <sup>12</sup>/<sub>20</sub>

### Tuesday

- 1.  $\frac{5}{8}$
- 2. 24 cm<sup>2</sup> **3**. 35 38
- 4. 1 000 001
- **5**. 631 299
- 6. 4/5
- **7**. 150 + 250 = 400
- **8**. 100 000
- 9.
- 10. 2 out of 13
- 11. 1
- **12**. 20
- **13**. 24
- **14**. 3
- **15**. D
- 16. 0000 hours
- **17**. 3<sup>1</sup>/<sub>2</sub>
- **18**. 1900
- **19**. 11
- 20. thousands

### Wednesday

- $1.^{1}/_{5}$
- 2. £5.00
- 3. 9999
- 4.  $6^2/_{5}$
- 5. hexagonal prism
- **6.** 13.5
- **7**. 19 993
- 8. prism
- 9. 9/12
- **10**. 16
- 11. 16.899
- 12. 36 cm<sup>2</sup> 13. 500 - 75 = 425

- **14**. 63
- **15**. 4200
- 16. Teacher check
- **17.** 3.20 p.m.
- **18**. 17 400
- 19. acute
- **20**. km

## Thursday

- 1.  $^{1}/_{2}$
- **2**. 99 980
- **3.** 11 m<sup>2</sup>
- **4.** 0.81
- **5**. 198 997
- **6.**  $20 \times 6 = 120$
- **7.** 100 000
- **8.** 121
- **9.** 20.999
- **10.** £8.00
- 11. false
- **12**. yes
- 13. kitchen
- **14.** 1250
- 15. triangular prism
- **16.** 1 hour 15 minutes
- **17**. ZZ02
- **18.** ZZ04
- 19. ZZ03
- **20**. no

# Friday test – page 97

- 1. 1/2
- **2.** 14.25
- **3**. K
- **4.** 2.91
- **5**. no
- **6**. 2994
- **7**. true
- **8.** 9.899
- **9**.  $49 \div 7 = 7$
- **10**. 18
- 11. 42.53
- **12**. <sup>18</sup>/<sub>24</sub> **13**. 15 cm<sup>2</sup>
- 14. 24 cm
- 15. £6.00
- **16**. 56 000
- **17**. 19
- **18**. 121
- 19.
- 20. hundred thousands
- **21**. 10 m<sup>2</sup>
- **22.** 40 m<sup>2</sup>
- 23. 1200 hours
- **24.** 0.28
- **25.** 250 120 = 130

### **WEEK 32 pages 64 – 65**

# Monday

- 1. £10.00
- **2.** 16 000
- **3.** 18 m<sup>2</sup>
- 4. 1 000 001
- **5.** £27.00
- **6.** 188 994
- **7.** 1 000 000
- 8. <sup>2</sup>/<sub>5</sub>
- **9.** 10.9
- **10**. £10
- **11.** 1.201
- 12. £79.50
- **13.** approx. 45°
- **14**. 1<sup>1</sup>/<sub>4</sub>
- **15**. 43%
- **16.** 0.09
- 17. <sub>T</sub>
- 18.  $75 \div 3 = 25$ **19.** 0.27
- 20. 5.04 cm

# Tuesday

- 1. £25.00
- **2**. 1 000 001
- **3.** 33.18
- 4. 11.76
- **5**. 30
- **6**. 268 798 **7.** 1 000 100
- 8. 🖃
- 9. triangular pyramid
- 10. £8.00
- 11. £59.50
- **12.**  $^{9}/_{_{12}}$
- **13**. £28.00
- **14.** 18.969
- **15**. 0.07, 0.7, 7, 70
- **16**. 32
- 17.  $\frac{5}{100}$ 18. 48 5 = 43
- 19.  $\frac{8}{5} = \frac{13}{5}$
- **20**. 190 m

# Wednesday

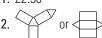
- 1. £5.00
- 2. 3 hours 5 minutes **3**. C
- 4. C
- **5**. B
- **6**. B
- **7.** no
- 8. 32 km **9**. 2
- 10.  $^{4}/_{_{3}} = 1^{1}/_{_{3}}$
- **11**. no
- **12**. 19.4

**13**. 130 000

- **14**. £19.50
- **15**. 12 + 15 + 18 = 45
- 16. parallelogram
- **17**. 21 m<sup>2</sup>
- 18.  $3^3/_{5}$
- 19. 12 a.m.
- **20**. <sup>5</sup>/<sub>6</sub>

# Thursday

1. £2.50



- 3. 21 cm<sup>2</sup>
- **4.** 4.9
- **5**. 1 000 003
- **6**. 2
- **7**. 8 8. £30.00
- **9**. 18
- **10.** 30, 3.3, 0.3, 0.03 11. 1/4
- **12.** 61.38
- **13**. 45 14. nonagon
- **15**.  $6 \times 10 = 60$
- 16. £3.60
- **17**. <sup>3</sup>/<sub>4</sub>
- **18**. 36 **19**. 8500

# 20. tenths

- Friday test page 97
- 1. £12.00
- **2**. no
- **3**. 18 000
- **4.** £45.00
- **5.**  $^{6}/_{4} = 1^{2}/_{4} \text{ or } 1^{1}/_{2}$
- **6**. 6300
- **7**. 5500
- **8.** <sup>7</sup>/<sub>10</sub>
- 9. 40
- 10. nonagon
- 11. tenths **12**. 2
- **13**.  $15 \times 5 = 75$
- 14. £3.60
- **15**. 6.879
- **16**. 63%

**19.** 0.09, 0.19, 0.9, 9

- **17**. 1 000 101 **18**. <sup>4</sup>/<sub>5</sub>
- **20**. 21.25
- **21**. kite 22. 45 m<sup>2</sup>
- **23**. 36 m **24**. T

**25**. 4<sup>5</sup>/<sub>6</sub>

### WEEK 33 pages 66 – 67

# Monday

- 1. +1. -2 **2.** 1 000 002
- 3. 40/<sub>9</sub>
- 4. 12 + 8 = 20
- **5**. 9992
- **6.** 18 000
- **7.** 60 000
- 8. £20.00
- **9**. 50
- 10. 4/16 **11**. 720
- 12. £5.00
- 13. **14.** 21.93
- **15**. 180°
- **16.** 6400 **17**. 13 m<sup>2</sup>
- 18. 24 m 19.  $2^3/_{-}$

**20**. 2

# Tuesday

- 1. +2, -2
- **2**. 64
- **3**. 5.5 **4**. 1 000 004
- 5. square pyramid **6.** 1 100 010
- **7.** <sup>12</sup>/<sub>18</sub>
- 8. tenths 9. 25 m<sup>2</sup>
- **10**. 72 12 = 60
- 11.65 **12.** 9.899
- 13. decagon
- 14. yes **15**. 90°
- 16. 4 **17**. 80 000
- **18**. 200 19. yes

# 20. 12.59 a.m.

- Wednesday
- **1.** 0. –10 **2.**  $8/_{4} = 2$
- **3**. 320
- **4.**  ${}^{6}/_{10}$  or  ${}^{3}/_{5}$ **5.**  $75 \div 3 = 25$ **6.** 0.01
- **7.** 109 899 8. £45.00

9. bathroom

- 10. 18 m<sup>2</sup> **11**. 81
- 12. Teacher check
- **13.** 50 000
- New wave mental maths

Date: \_\_\_\_\_

Name:

EN



EN

Level EE Not so Easy

1. 6 X 2 = \_\_\_\_ 26. 6 x 9 = \_\_\_\_

**R**<sub>2</sub>. 2 x 5 = \_\_\_\_ 27. 4 x 7 = \_\_\_\_

**3.** 7 × 3 = \_\_\_\_ **28.** 6 × 8 = \_\_\_\_

**4.** 6 x 4 = \_\_\_\_ **29.** 12 x 9 = \_\_\_\_

**5.** 6 × 3 = \_\_\_\_ **30.** 3 × 12 = \_\_\_\_

**6.** 4 x 2 = \_\_\_\_ **31.** 12 x 4 = \_\_\_\_

7. 4 x 5 = \_\_\_\_ 32. 9 x 9 = \_\_\_\_

8. 6 x 5 = \_\_\_\_ 33. 12 x 12 = \_\_\_\_

**9.** 9 × 5 = \_\_\_\_ **34.** 7 × 7 = \_\_\_\_

**10.** 11 x 7 = \_\_\_\_ **35.** 9 x 6 = \_\_\_\_

11. 4 × 4 = \_\_\_\_ 36. 2 × 9 = \_\_\_\_

**12.**  $3 \times 7 =$  \_\_\_\_\_ **37.**  $8 \times 9 =$  \_\_\_\_\_

**13.** 4 × 6 = \_\_\_\_ **38.** 8 × 12 = \_\_\_\_

**14.** 9 × 4 = \_\_\_\_\_ **39.** 4 × 0 = \_\_\_\_\_

**15.** 10 × 10 = \_\_\_\_ **40.** 11 × 8 = \_\_\_\_

**16.** 11 × *O* = \_\_\_\_\_ **41.** 12 × 7 = \_\_\_\_

**17.** 12 × 1 = \_\_\_\_ **42.** 5 × 5 = \_\_\_\_

**18.** 3 × 9 = \_\_\_\_ **43.** 8 × 7 = \_\_\_\_

44.

 $2 \times 12 =$ 

19.

**20.** 2 x 7 = \_\_\_\_ **45.** 10 x 11 = \_\_\_\_

**21.** 3 × 3 = \_\_\_\_ **46.** 8 × 6 = \_\_\_\_

**22**  $7 \times 8 =$  **47.**  $5 \times 12 =$ 

**23.** 4 × 8 = \_\_\_\_ **48.** 9 × 7 = \_\_\_\_

**24.** 11 × 11 = \_\_\_\_ **49.** 6 × 7 = \_\_\_\_

**25.** 12 x 6 = \_\_\_\_ **50.** 9 x 8 = \_\_\_\_

Y

Your Score: \_\_\_\_

TIMES TABLE CHALLENGE - Prim-Ed Publishing - 25

Date: \_\_\_\_\_

Name:

Level EE Not so Easy

**E** 1. 6 X 2 = \_\_\_\_ **26**. 6 x 9 = \_\_\_\_

**2.** 2 × 5 = \_\_\_\_ **27.** 4 × 7 = \_\_\_\_

**3.** 7 × 3 = \_\_\_\_ **28.** 6 × 8 = \_\_\_\_

**4.** 6 × 4 = \_\_\_\_ **29.** 12 × 9 = \_\_\_\_

**5.** 6 × 3 = \_\_\_\_ **30.** 3 × 12 = \_\_\_\_

**6.** 4 × 2 = \_\_\_\_ **31.** 12 × 4 = \_\_\_\_

7. 4 x 5 = \_\_\_\_ 32. 9 x 9 = \_\_\_\_

8. 6 x 5 = \_\_\_\_ 33. 12 x 12 = \_\_\_\_

**9.** 9 x 5 = \_\_\_\_ **34.** 7 x 7 = \_\_\_\_

**10.** 11 × 7 = \_\_\_\_ **35.** 9 × 6 = \_\_\_\_

11. 4 x 4 = \_\_\_\_ 36. 2 x 9 = \_\_\_\_

**12.** 3 × 7 = \_\_\_\_\_ **37.** 8 × 9 = \_\_\_\_\_

**13.** 4 × 6 = \_\_\_\_\_ **38.** 8 × 12 = \_\_\_\_

**14.** 9 × 4 = \_\_\_\_\_ **39.** 4 × 0 = \_\_\_\_\_

**15.** 10 × 10 = \_\_\_\_ **40.** 11 × 8 = \_\_\_\_

**16.** 11 × O = \_\_\_\_\_ **41.** 12 × 7 = \_\_\_\_

**17.** 12 x 1 = \_\_\_\_ **42.** 5 x 5 = \_\_\_\_

**18.** 3 × 9 = \_\_\_\_ **43.** 8 × 7 = \_\_\_\_

**19.** 2 × 12 = \_\_\_\_ **44.** 4 × 11 = \_\_\_\_

**20.** 2 × 7 = \_\_\_\_ **45.** 10 × 11 = \_\_\_\_

**21.** 3 × 3 = \_\_\_\_ **46.** 8 × 6 = \_\_\_\_

**22** 7 × 8 = \_\_\_\_ **47.** 5 × 12 = \_\_\_\_

**23**. 4 × 8 = \_\_\_\_ **48**. 9 × 7 = \_\_\_\_

**24.** 11 × 11 = \_\_\_\_ **49.** 6 × 7 = \_\_\_

**25.** 12 × 6 = \_\_\_\_ **50.** 9 × 8 = \_\_\_

Your Score: \_\_\_\_

TIMES TABLE CHALLENGE - Prim-Ed Publishing - 25

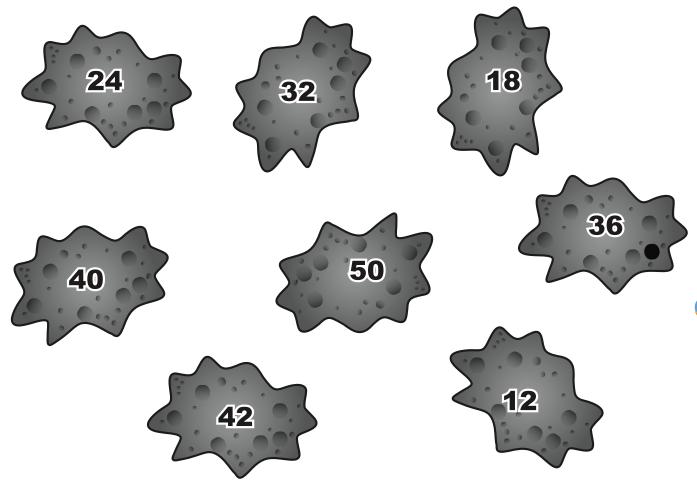
# TIMES TABLE

# Answers

	P	Q	R	S	τ	AA	ВВ	СС	DD	EE	FF	GG	HH	((	JJ
1	16	99	9	24	12	6	8	9	14	12	45	21	8	27	24
2	12	40	9	33	30	0	14	18	3	10	16	12	21	20	32
3	5	33	14	0	4	4	0	15	16	21	12	20	27	1	70
4	9	50	12	36	24	9	10	2	15	24	15	8	32	12	0
5	8	11	50	60	8	8	8	12	20	18	8	18	72	16	28
6	7	20	77	12	35	7	70	20	6	8	60	10	30	24	30
7	0	44	100	77	0	4	6	21	40	20	18	15	56	18	48
8	45	10	6	48	25	12	16	30	18	30	32	18	48	96	54
9	10	30	21	99	28	10	18	10	0	45	4	12	18	32	120
10	24	88	16	55	1	16	20	4	18	77	12	0	36	45	63
11	16	60	27	84	18	10	12	35	0	16	27	100	100	70	132
12	30	55	24	22	16	12	27	18	9	21	10	0	0	0	96
13	3	80	4	110	36	15	10	5	5	24	27	12	4	72	18
14	32	66	24	11	20	60	18	16	35	36	24	8	72	28	12
15	24	70	40	72	16	18	100	40	25	100	36	40	84	90	96
16	77	22	36	44	35	2	9	12	18	0	20	16	27	110	60
17	15	80	18	96	22	20	30	30	32	12	100	18	12	54	120
18	28	60	28	0	27	40	28	0	21	27	32	45	16	30	60
19	6	77	6	88	14	0	36	49	100	24	36	24	36	108	84
20	80	10	32	120	40	33	21	27	24	14	56	36	48	48	36
21	44	66	15	0	9	18	4	24	45	9	24	55	49	8	72
22	49	100	8	96	70	10	55	45	64	56	36	1	48	54	108
23	4	20	49	66	132	30	24	16	48	32	24	36	12	48	48
24	88	50	18	108	24	14	0	48	42	121	28	42	50	110	108
25	36	0	121	11	100	16	24	28	110	72	48	27	108	121	99
26	64	110	132	84	49	12	90	56	0	54	45	30	144	120	81
27	100	11	25		32	22	24			28	40			132	54
28				22				36	28			42	110		
29	110	132 70	63	144 33	6	55 0	32 16	70 54	99	108	55 21	121 50	36 99	144 72	96 72
30	54					20	18	14	4	36	0	48			
31		22 77	20 48	132 44	36 40	10	12		24	48			56	96 96	144
32	21		45			44	25	55			24	25	110		132 8
33	18	121	30	110	54 121	16	35	8 36	56 22	81	36 42	56 36	132 25	63 55	64
34	24	90	0			50	24		12	49		54	2.5	40	
35	120	0	42	121 12 <i>0</i>	20	9	3	24 25	40	54	25 36	49	120	60	45 72
36	25	40	64	55	0	6	88	63	81	18	30	45	40	54	84
37	36	90	36	36	64	12	0	10	48	72	49	28	108	84	60
38	72	120	42		77	15	22	40	49	96	54	80	144	132	90
39	35	30	56	12		6	10				88	0	0		
40			81	99	28	18		24	16	0			72	60 48	110 54
	12	55			108		16	32			80	32			
41	20	120	70	0	56	16	24	1	24	84 25	24	81	81	108	40
	63	33	16	60	10	30	40	42	56		33	28	14	36	108
44	18	132	96	88	81	8	36	0	30	56 44	48	50	32	84	108
	48	44	132	48	48	20	45	30	88		24	24	42	81	72
45	0	99	54	72	36	14	20	8	63	110	64	64	24	108	48
46	40	110	10	132	132	18	25	36	36	48	27	110	90	72	36
47	96	0	72	96	15	0	28	44	24	60	0	16	80	84	84
48	99	88	21	77	144	30	21	21	54	63	32	56	100	72	10
49	84	44	36	84	96	25	36	24	32	42	99	54	72	120	16
50	56	132	72	108	63	12	35	42	72	72	56	12	96	108	36

# COMPLETE THE FACTOR ASTEROIDS

Around the 'spikes' of each asteroid, record the factors for each nominated number.



Use divisibility rules to test the following statements. Mark a tick in the box if it is true and a cross if it is false.

	<b>3</b>	7	8	2
The number 1467 is a multiple of				
The number 9382 is a multiple of				
The number 1005 is a multiple of				
The number 3856 is a multiple of				
The number 2296 is a multiple of				
The number 9385 is a multiple of				
The number 7705 is a multiple of				
The number 1904 is a multiple of				
The number 4408 is a multiple of				
The number 3199 is a multiple of				

# THE LAWS OF DIVIDING - TRY B

The law says, 'a number is divisible by 6 if the last digit is an even number and the sum of all the digits is divisible by 3'. Follow the example below to test out the law.

4	- Andrews		
		1	
Law of dividing			

example below to test out to		Law of La
676	958	1032
6 + 7+ 6 = 19		
19 ÷ 3 = 6 and 1		
remainder Therefore 676 is not		
divisible by 6		
559	663	1105
498	376	580
564	869	642
304	007	042
676	834	426
<u> </u>		

# Content description: Identify and describe factors and multiples of whole numbers and use them to solve problems (ACMNA098) 🔼

# THE LAWS OF DIVIDING - THIS TIME TRY ?

The law says, 'a number is divisible by 7 if the last digit when doubled and subtracted from the remaining digits gives a difference that is divisible by 7'. Follow the example below to test out the law.

# FRACTIONS AND DECIMALS

# A FRACTION OF A LONG JUMP

Year 5 were preparing for the upcoming athletics season and all the class tried out against the existing school long jump record.

Abbey jumped % of the record, Bianca ¼, Charli ¾, Donna ¼, Eddie ¼, Frankie ¾, Gina ¼, Harry ¾, Indy ¾, Jessie ¾, Ky ¾ and Liam ¾ of the record.

On the line below, measure and place where each jumper's leap places him or her against the school record.

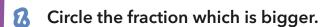




2	If the record was 4.8 metres, work out how far each competitor jumped i
	metres and centimetres.

Abbey	Bianca	Charli	Donna
•			
Eddie	Frankie	Gina	Harry
244.0			
Indy	Jessie	Ky	liam
111Gy	Jessie	1Xy	Liam

# WHICH IS BIGGER?







 $\bigcirc$  This number line is from 0 to 1. Show where  $\frac{1}{4}$  and  $\frac{3}{4}$  would be placed.



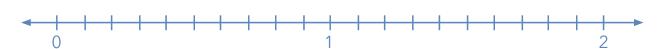
 $\blacksquare$  This number line is from 0 to 2. Show where  $\frac{1}{2}$  and  $\frac{3}{4}$  would be placed.



This number line is from 1 to 2. Show where ½ and ¾ would be placed.



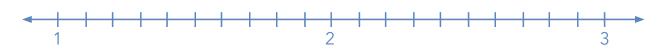
 $\square$  This number line is from 0 to 2. Show where  $\frac{1}{4}$  and  $\frac{1}{4}$  would be placed.



 $\bigcirc$  This number line is from 0 to 1. Show where  $\frac{1}{5}$  and  $\frac{4}{5}$  would be placed.



 $\frown$  This number line is from 1 to 3. Show where  $\frac{1}{2}$  and  $\frac{1}{2}$  would be placed.



This number line is from 1 to 2. Show where 1% and 1% would be placed.



# MY FAVOURITE FRACTION FLAVOURS

Using the letters C, L, O, R and P, 'tag' the 36-can box of soft drinks the following way:

½ cola ¼ lime ⅓ orange

FRACTIONS AND DECIMALS

What fraction will be either pineapple or raspberry?





Using the letters C, L, O, R and P, 'tag' the 36-can box of soft drinks the following way:

 $\frac{1}{12}$  cola  $\frac{1}{12}$  lime  $\frac{1}{12}$  orange  $\frac{1}{12}$  pine What fraction will be raspberry?

Using the letters C, L, O, R and P, 'tag' the 36-can box of soft drinks the following way:

½ cola % raspberry % lime

What fraction will be either pineapple or orange?





Using the letters C, L, O, R and P, 'tag' the 36-can box of soft drinks the following way:

% cola % lime % orange % pine What fraction will be raspberry? How many cans will that be?

Using the letters C, L, O, R and P, 'tag' the 36-can box of soft drinks the following way:

3 cola

6 lime

9 orange

9 pineapple

How many cans will be raspberry? \_\_\_

What fraction is that?



FOLLOW THE PA	TTERN

Rule	Start at	Next 10 numbers
+6	3	
-3	101	
+5, -1	16	
+4	23	
-6	144	
-3, +7	12	
+12	6	
-9, +2	114	
+8	11	
+10, -2	210	
+3, -5	125	
-6, +3	117	
+12, -6	28	
+9, -7	34	
-4, +8	12	

<b>Pattern</b>	Description of rule/pattern
11, 12, 15, 20, 27, 36	
39, 44, 43, 48, 47, 52, 51	
17, 24, 29, 36, 41, 48	
65, 55, 60, 50, 55, 45, 50	
66, 68, 64, 66, 62, 64, 60	
88, 85, 91, 88, 94, 91, 97	
112, 121, 130, 139, 148	
22, 30, 26, 34, 30, 38, 34	
33, 40, 34, 41, 35	
67, 76, 85, 84, 93, 102, 101	
14, 21, 18, 25, 22, 29	
133, 144, 154, 165, 175	
39, 44, 55, 60, 71, 76, 87	

# MUMBER SEQUENCES TO SOLVE

8		Pattern	The next 8 in the sequence
		+6, -2	
		+9, -3	
	1177	-12, +14	
		+5, +7	
		-3, +5	
2		Pattern 1.5 O.5	The next 8 in the sequence
	Œ.	+1.5, -0.5	
		+1.5, +3	
		+0.75, -0.25	
		+1.1, +2.2	
		+3.5, -2	
23		Pattern	The next 8 in the sequence
	23	+11, -3	
		+5, +10	
		-5, +9	
		+6, +9	
		-3, +15	
<b>(3)</b>		Pattern	The next 8 in the sequence
	<b>32</b>	+7, -8	
		+9, -11	
		-11, +15	
		+8, +2	
		+13, -6	

# MORE EQUIVALENT NUMBER SENTENCES

Write down and solve these number sentences. Don't slip up!

Nine times what number equals the product of three and twelve?

When 72 is divided by twelve, the answer is three times what number?

Nine times what number equals the product of three and 24?

When 52 is divided by thirteen, the answer is four times what number?

Four times what number equals the product of eight and 16?

When 108 is divided by six, the answer is three times what number?

Four times what number equals the product of three and twelve?

When 54 is divided by six, the answer is three times what number?

Eight times what number equals the product of two and 32?

When 108 is divided by twelve, the answer is three times what number?

Four times what number equals the product of ten and twelve?

When 144 is divided by twelve, the answer is three times what number?

Five times what number equals the product of ten and fourteen?

When 168 is divided by two, the answer is four times what number?

# **SUBTRACTION**



# **TEACHER INFORMATION**

# **Objectives**

Understands the role of place value when subtracting numbers. Calculates subtraction problems with numbers up to five digits.

# Concepts required

Place value Trading Problem solving

## **Answers**

- 1. (a) 32 (d) 301
- 2. (a) 47 (d) 47
- 3. (a) 124
- (d) 504
- 4. (a) 368 (d) 267
- 5. (a) 2027
  - (d) 4341
- 6. (a) 118 (d) 1264
- 7. (a) 65 - 23 42
  - (d) 740 -336 404
  - (g) 5240 -2039 3201

- (b) 33
- (e) 2122
- (b) 26
- (e) 44
- (b) 323
- (e) 368
- (b) 256
- (e) 253
- (b) 2252 (e) 3189
- (b) 635
- (e) 1424
- (b) 78 - 49 29
- (e) 535 - 145 390
- (h) 8000 - 2999 5001

- (c) 211
- (c) 58
- (f) 23
- (c) 314 (f) 746
- (c) 263
- (f) 205
- (c) 3218
- (c) 1542
- (c) 81 -35 46
- (f) 4284 - 1162 3122

# **NUMBER**

72

63

- 37

**3**. (a)

(c)

# 7. Find the missing numbers to complete each problem.



# **DIRECTIONS**

#### SHAPE

# **TEACHER INFORMATION**

# Objectives

Describes direction using conventional locational language.

Describes location using compass point directions.

# **Concepts required**

Compass directions
Locating information on a map

# Materials needed

**Atlas** 

### Answers

1. NW NE SW SE E

- 2. (a) east
- 3. (a) Seattle
  - (c) Houston
  - (e) Los Angeles
  - (g) east
- 4. Answers will vary
- (b) west
- (b) Boston, New York
- (d) north-east
- (f) St Louis
- (h) Boston

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# **DIRECTIONS**

1. Add the direction abbreviations to the 2. (a) From which direction does the sun rise? compass. (b) In which direction does the sun set? Seattle New York ★Salt Lake City San Francisco St<sub>.</sub>Louis **L**as Vegas 3. Answer the questions about this map of the United States of America. Los Angeles (a) What city is directly located in the far north-west? Houston New Orleans (b) What two cities are located on the east coast? (c) What city is directly west of New Orleans? (d) In which direction is Chicago from Houston? (e) What city is south-west of Las Vegas? (f) What city is south-west of New York? (g) In which direction is Salt Lake City from San Francisco? (h) What is the most eastern city marked on the map? 4. Use the map of the United Kingdom, an atlas and compass directions to answer the questions. (a) Label the city, town or area where you live. (b) I live of Birmingham. (c) I am located closest to the coast. (d) The Lake District is to the of where I live. (e) The Isle of Skye is located to the of where I live. (f) The Irish Sea is located to the of where I live.