MATHEMATICS

Year 6/Primary 7 Ext.

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PARENT PACK

MONDAY

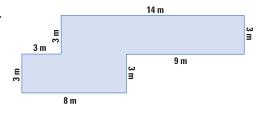
- 1. $0.6 \div 0.2 =$
- **2.** 0.96, 0.97, 0.98, 0.99,
- 3. What would be the perimeter of a regular hexagon with 60-mm sides?
- 4. $^{-}7 + ^{+}3 =$
- 5. The total price of four pizzas is £24. What is the average cost of a pizza? £
- **6.** $^{1}/_{2} < ^{1}/_{10}$
- true false
- 7. $8 L 253 mL = 8^{253}/_{1000} L = 8$.

- 8. 7 0.04 =
- 9. Which digit in the decimal 4.705 is the thousandth?
- **10.** $20\% = \frac{2}{10} = 0$.
- 11. Is the formula: area = 1 + w correct?
- 12. $5^2 =$
- 13. A cube has 2-cm by 2-cm faces. What is the cube's surface area?
- **14.** Write three capital letters that are symmetrical.
- 15. 6% = 0.
- 16. Round 3.06 (nearest tenth).



Spin the triangle 450° anticlockwise. Draw its new position.

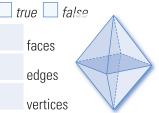
18.



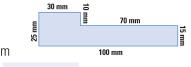
- Area =
- **19.** Perimeter =
- 20. Tick which would be best to measure the width of a book.
 - ruler
- trundle wheel metre stick

TUESDAY

- 1. $\frac{3}{4} > \frac{1}{2}$
- 2. An octahedron has:



- 3. $0.9 \div 0.3 =$
- **4.** $^{-}4 + ^{+}9 =$
- **5**. 75 000, 150 000, 225 000,
- **6.** $5 L 450 mL = 5^{450}/_{1000} L = 5$.
- litres
- 7. What do we call an angle that is 90°?
- 8. What is the perimeter?



- 9. $66\% = \frac{2}{3} = 0$.
- 10. Name this shape.



- 11. $6^2 =$
- 12. Is the formula: area = 1 w correct?
- 13. Will a hexagon and a square tessellate together?
- 14. A cube has 3-cm by 3-cm faces. What is the cube's surface area?
- cm^2
- 15. Draw the axis of symmetry on the irregular pentagon.

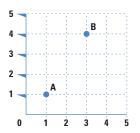


- 16. Round 6.14 (nearest tenth). 17. Tick which would be best to measure the height of vour teacher.
 - ruler
- trundle wheel
- metre stick

- 18. 9% = 0.
- 19. The place value of 9 in 952 075 is
- 20. Are 18 and 81 both composite numbers?

WEDNESDAY

- 1. $0.75 \div 0.25 =$
- 2. Write the co-ordinates of point A.



- **3.** Write the co-ordinates of point B.
- **4.** 1.07, 1.08, 1.09,
- 5. What is the perimeter?
- **6.** 8² =
- 7. What do we call an angle that is between 0° and 90° ?
- 8. $37.5\% = \frac{3}{8} = 0.$
- 9. Round 4.378 (nearest tenth).
- 10. A cube has 4-cm by 4-cm faces.
 What is the cube's surface area?
- **11**. 110% = (decimal)

The graph shows the number of sunny days for the first six months of a year.

12. Which month had 13 sunny days?13. Which month had the 13



14. Which month had the least sunny days?

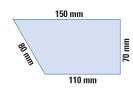
most sunny days?

- 15. How many more sunny days had March than January?
- **16.** Which month had fewer sunny days than you might expect?
- 17. Which month had 23 sunny days?
- **18.** Which month would have the greatest chance of sunny days if you went for a picnic?
- **19.** Tick which would be best to measure the length of your foot.
 - ruler trundle wheel metre stick
- 20. Which digit in the decimal 4.705 is the tenth?

- 1. -5 + +3 =
- 2. The total cost of 5 drinks is £6.25. What is the average cost of a drink? £
- 3. **E**

Turn this rectangle 90° clockwise and draw the new position.

- **4.** 0.9 ÷ 0.15 =
- **5.** 50, 5, 100, 10, 200,
- **6.** $7 L 945 mL = 7^{945}/_{1000} L = 7$. litre
- 7. Which digit in the decimal 4.705 is the hundredth?
- **8**. 11² =
- **9.** 5.5 0.9 =
- 10. What is the perimeter?



- **12.** What do we call an angle that is between 90° and 180°?
- **13.** What is the probability of choosing a head on a one coin toss?

in

- **14.** $80\% = \frac{8}{10} = 0.$
- 15. Is the formula: $Area = L \times W$ correct?
- **16.** 1 = 9/
- 17. A cube has 5-cm by 5-cm faces.
 What is the cube's surface area?
- 18. Round 2.056 (nearest tenth).
- 19. How many degrees make up a square?
- **20.** Will a parallelogram and an isosceles triangle tessellate together?

MONDAY

- 1. What do we call an angle that is between 180° and 360°?
- 2. $2^5 =$
- 3. $0.6 \div 0.15 =$
- **4.** $6^{1}/_{4} =$ (improper fraction)
- 5. Write ten million, five hundred and twelve thousand and fifteen as a numeral.
- 6. 8% of £10.00 = £
- **7.** What is the place value of 4 in 2.4 million?
- 8. The total cost of 6 drinks is £7.20. What is the average cost of a drink? £
- 9. What is the angle between the hands on an analogue clock displaying 9 o'clock?
- 10. Which is a composite number?
 - 15 11
- **11**. 80 x 30 = 24 x y *so* y =
- 12. $\frac{4}{5} + \frac{24}{5} =$

Draw to show a 270° turn clockwise.

- 14. Round 15.6073 to 3 decimal places.
- 15. Write the formula to work out an area:
- **16.** Change $2^4/_7$ to an improper fraction.
- 17. Tick which scales would be best to weigh a banana.
 - kitchen scales bathroom scales
- 18. What is the volume of a box 40 cm by 30 cm by 40 cm?
- **19.** $0.7 < {}^{8}/_{10}$ true false
- 20. If there are ¥116 to £1.00, how many pounds would you get for ¥580?

TUESDAY

- 1. Simplify ¹⁸/₂₄.
- 2. Write 3.65 million as a numeral.
- 3. How much are the wages if you pay time and a half for 4 hours (normal rate £10.00 per hour)?
 - £
- 4. $7^3/_4 =$ (decimal)
- 5. What do we call an angle that is 90°?
- **6.** 6.05 km =
- **7**. -7 + +3 =
- 8. 9 L 45 mL = $9^{45}/_{1000}$ L = 9.

litres

- 9. Tick which would be best to measure the length of the street:
 - ruler trundle wheel metre stick
- 10. How far do you go in an hour if you take 5 minutes to go 6 km?
- 11. Which digit in the decimal 0.527 is the tenth?
- 12. Write $^{49}/_{6}$ as a mixed number.
- 13. Round 21.3689 to 3 decimal places.
- 14. What is the diameter of a circular driveway with a 10 m radius?
- 15. A shape has six 2-cm by 3-cm faces.

cm²

- What is the shape's surface area? **16.** What is the average of these cricket scores? 8, 15, 8, 15, 0
- 17. $5000 \div (50 \times 10^2) =$
- **18.** Are 210 and 120 both prime numbers?
- **19.** $3.3 > 3^{1}/_{5}$
- true false
- 20. Tick which scales would be best to weigh a dog.

 - kitchen scales bathroom scales

WEDNESDAY

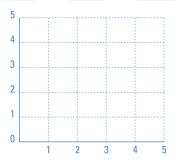
- 1. If there are ¥116 to £1.00, how many pounds would you get for ¥232?
- 2. Write 8.2 million as a numeral.
- 3. Simplify 15/₁₈.
- **4.** 7.092 L =
- 5. What speed are you travelling if your bike does 1 km in 4 minutes?
- km/hr
- 6. $9^4/_{5} =$ (improper fraction)
- 7. $0.9 \div 0.3 =$
- 8. $^{-}5 + ^{+}9 =$
- 9. The total cost of 8 cakes is £4.40. What is the average cost of a cake?
- 10. Draw a net of a cube.
- 11. Change $5^3/_8$ to an improper fraction.
- 12. Tick which would be best to measure the height of a door.
 - ruler trundle wheel metre stick
- 13. Which digit in the decimal 5.026 is the thousandth?
- **14.** $87.5\% = \frac{7}{8} = 0$
- **15**. 4 x y = 280 *so* y =
- **16.** Write the formula to work out an area:

$$a = 1$$
 w

- 17. A shape has six 2-cm by 4-cm faces. What is the shape's surface area?
- **18.** Write in ascending order.



- 19. Draw a dot at co-ordinate (2,3) and label it 'A'.
- 20. Draw a dot at co-ordinate (5,4) and label it 'B'.



THURSDAY

1. What is the probability of being born on a Sunday?

- **2**. -15 + -2 =
- 3. What do we call an angle that is between 0° and 90°?
- **4.** $10 L 8 mL = 10^8/_{1000} L = 10$.

litres

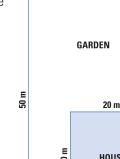
5. Which digit in the decimal 5.234 is the hundredth?

6. $62.5\% = \frac{5}{8} = 0.$

- 7. Write five million and five as a numeral.
- 8. Halve 8.5.
- 9. 1800, 2600, 3400,
- 10. Draw the net of a cylinder.
- 11. What is the ratio of boys to girls if there are 8 boys and 24 girls?
- **12**. 6030 mm =



- **13.** 6.9 1.1 =
- 14. y =
- 15. Round 12.5467 to 3 decimal places.
- 16. Tick which scales would be best to weigh an apple.
 - kitchen scales bathroom scales
- **17**. 85 000, 100 000, 115 000,
- 18. The area of the house is 400 m². What is the area of the garden?



19. The perimeter of the house is 80 m. What is the perimeter of the garden?

20. $1.5 \div 0.3 =$

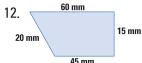
FRIDAY TEST Week 31

- 1. $0.8 \div 0.2 =$
- **2.** $^{-}6 + ^{+}9 =$
- 3. The total cost of 5 pizzas is £25.50. What is the average cost of a pizza?

- **5**. $4 L 295 mL = 4^{295}/_{1000} L$
 - = 4.litres
- 6. Which digit in the decimal 5.052 is the tenth?
- 7. 0.1 =
- **8.** 60 000, 150 000, 240 000, 330 000,
- **9.** $60\% = \frac{6}{10} = 0.$
- 10. What is the perimeter of a regular pentagon with 45-mm sides?

mm

11. Write a number that is symmetrical.



45 mm What is the perimeter of this quadrilateral?

mm

- 13. Area of a square
 - $= L \times W$
 - true false
- 14. A cube has 2-cm by 2-cm faces. What is the cube's surface area?

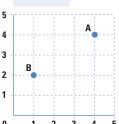
- 15. Tick which would be the best to measure the length of a worm.
 - ruler trundle wheel metre stick
- 16. An octahedron has

faces edges vertices

- 17. What do we call an angle that is between 180° and 360°?
- 18. The place value of 5 in 450 277 is

19. Rotate this shape 450° anticlockwise and draw its new position.

- 20. Will a trapezium tessellate?
- 21. Write the co-ordinates of point A.



- 22. Write the co-ordinates of point B.
- 23. Round 6.464 (nearest tenth).
- 24. How many degrees make up a square?
- 25. Are 150 and 15 both composite numbers?

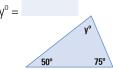
FRIDAY TEST Week 32

1. The place value of 4 in 4 378 200 is

2. Simplify 10/12.

3. $10^2 - 3^2 =$

4. $y^0 =$



5. Rotate 450° clockwise.



- 6. What do we call the angle that is between 180° and 360°?
- **7**. 6000, 12 000, 24 000, 48 000,
- 8. (y + 50) = (80 + 90)

SO y =

- 9. $1.6 \div 0.4 =$
- **10.** $3^{1}/_{3} + 3^{2}/_{3} =$
- 11. Round 25.0917 to 3 decimal places.
- 12. Write the formula to work out area of a rectangle.

- 13. Tick which scales would be best to weigh a child.
 - kitchen bathroom
- 14. The total cost of 9 cakes is £3.15. What is the average cost of a cake?

15. $9^2 =$

16. -3 + +7 =

17. $6 \times y = 360$

SO V =

18. 2075 mm =

Enlarge this line by 4:1.

20. If there are ¥116 to £1.00, how many pounds would you get for ¥580?

21. What is the area of a rectangular field 100 m by 15 m?

22. $5 L 25 mL = 5^{25}/_{1000} L =$

- 23. Which digit in the decimal 2.347 is the hundredth?
- 24. What speed would you be travelling on your bike if it was doing $7^{1}/_{2}$ km every 30 minutes?

km/hr

25. A shape has six 2-cm by 5-cm faces. What is the shape's surface area?

 cm^2

NEW WAVE MENTAL MATHS Year 6/Primary 7 Ext. Book – Answers

WEEK 31 pages 62 – 63

Monday

- 1. 3
- 2. 1
- 3. 360 mm
- **4**. -4
- **5.** £6.00
- 6. false
- **7.** 8.253
- **8.** 6.96
- **9**. 5
- **10**. 0.2
- **11.** no
- **12**. 25
- 13. 24 cm³
- 14. Teacher check
- **15.** 0.06
- **16.** 3.1
- 17.
- 18. 66 m²
- **19**. 46 m
- **20**. ruler

Tuesday

- 1. true
- **2**. 8, 12, 6 **3**. 3
- **4**. +5
- **5**. 300 000
- **6.** 5.45 litres
- 7. right angle
- **8**. 250 mm
- **9.** 0.66
- 10. rhombus
- 11. 36
- **12.** no
- 13. yes
- **14**. 54 cm³
- 15. Teacher check
- **16.** 6.1
- 17. metre stick
- **18.** 0.09
- 19. 900 000
- **20**. yes

Wednesday

- 1. 3
- 2. 1. 1
- **3**. 3, 4
- **4.** 1.1
- **5.** 130 cm
- **6**. 64
- 7. acute angle
- **8.** 0.375
- 9. 4.4
- 10. 96 cm³
- 11. 1.1
- 12. February
- 13. June
- 14. January

- **15**. 10
- 16. April
- 17. May
- 18. June 19. ruler
- **20**. 7

Thursday

- 1. -2 **2**. £1.25
- 3. Ш ш
- **4**. 6
- **5**. 20
- **6**. 7.945
- **7**. 0
- **8**. 121
- **9.** 4.6
- **10**. 410
- 11. false
- 12. obtuse
- **13**. 1 in 2
- **14.** 0.8
- **15**. yes
- **16**. 100%
- **17**. 150 cm³
- **18.** 2.1
- **19**. 360° **20**. yes

Friday Test page 97

- 1. 4
- **2**. +3
- 3. £5.10
- 4. false
- **5**. 4.295
- **6**. 0
- **7**. 10%
- 8. 420 000
- **9.** 0.6
- **10**. 225 mm
- 11. Teacher check
- **12.** 140 mm
- 13. true
- 14. 24 cm³
- 15. ruler
- **16.** 8. 12. 6
- 17. reflex
- **18**. 50 000
- 19.
- **20**. yes
- 21. 4, 4
- **22**. 1, 2 **23**. 6.5
- **24**. 360°
- **25**. yes

WEEK 32 pages 64 – 65

Monday

- 1. reflex
- **2**. 32
- 3. 4
- **4.** ²⁵/₄
- **5**. 10 512 015
- **6**. 80p
- **7.** 100 000
- 8. £1.20
- **9**. 90° **10**. 15
- **11.** 100
- 12. $3^3/_{E}$
- **14.** 15.607
- **15**. a = I x w
- **16.** ¹⁸/₇
- 17. kitchen
- 18. 48 000 cm³
- **19**. true
- **20**. £5.00

Tuesday

- 1. 3/4
- **2**. 3 650 000
- **3**. £60.00
- **4.** 7.75
- 5. right
- **6.** 6050 m **7**. –4
- **8.** 9.045
- 9. trundle wheel
- **10.** 72 km
- 11. 5
- **12**. 8¹/₆ **13**. 21.369
- **14**. 20 m
- 15. 36 cm³ **16.** 9.2
- **17**. 1
- **18.** no
- 19. true **20.** bathroom

Wednesday

- 1. £2.00
- **2.** 8 200 000
- 3. 5/
- **4.** 7092 mL **5**. 15 km/hr
- **6**. ⁴⁹/₅
- **7**. 3
- 8. +4
- **9**. 55p
- 10. Teacher check
- 11. $^{43}/_{8}$
- 12. metre stick
- **13**. 6

- **14.** 0.875
- **15**. 70
- 16. a = 1 x w
- **17**. 48 cm³
- **18.** 1%, 0.1, $\frac{5}{10}$, 0.99
- 19. Teacher check
- 20. Teacher check

Thursday

- **1**. 1 in 7
- **2.** -17
- 3. acute **4.** 10.008
- **5**. 3
- **6.** 0.625 **7**. 5 000 005
- **8.** 4.25 **9**. 4200
- 10. d____b
- **11.** 8:24 or 1:3 **12.** 6.03 m
- **13.** 5.8
- **14.** 40°
- **15.** 12.547 16. kitchen
- **17**. 130 000
- **18.** 1 100 m² **19**. 160 m

20. 5

- Friday Test page 97 1. 1 000 000
- 2. ⁵/₆
- **3**. 91 **4**. 55°
- 5. 🗩
- 6. reflex **7**. 96 000
- **8**. 120
- 9. 4
- 10. 7
- 11. 25.092
- 12. I x w 13. bathroom
- **14**. 35p
- **15**. 81 16. +4
- **17**. 60
- **18.** 2.075 m **19**. 40 mm
- **20.** £5.00 21. 1500 m²
- **22**. 5.025 23. 4
- 24. 15 km/hr 25. 60 cm³

WEEK 33 pages 66 – 67

Monday

- 1. 1 300 000
- **2**. 3
- 3. new line = 4 cm
- 4. yes
- 5. kitchen
- **6.** 5.004
- 7. ¹/_o
- **8.** 81
- 9.0%
- **10**. 9
- 11. 100 000 12. Teacher check
- 13. Teacher check **14.** 0.8
- **15.** 54 cm³
- **16**. 350 m² 17. 88 m
- 18. £12.00 **19**. 15.04

20. 7205 g Tuesday

- 1. £10.00 2. 35 m²
- **3**. 8, 12, 6 4. 6 090 000
- **5**. 87 000 **6.** 14.972
- **7**. 5 8. 21
- g. (V) 10. trundle wheel
- 11. 1/4
- **12.** 50%
- 13. £45.00 14. 48 cm³
- 15. Teacher check **16.** 1000
- 17. $5^{1}/_{2}$ **18.** £30.00

19. 107 cm

20. ¹/₄, ¹/₂, ³/₄, ⁷/₈

- Wednesday
- 1. 2 750 000 **2.** 21.588
- **3**. 5 **4.** $4^{1}/_{2}$
- **5**. 15 mm **6.** -5 hours **7**. no
- 8. kitchen 9. $^{1}/_{g}$
- **10**. 36 cm³ 11. 11, 13, 17 and 19
- **12.** £120.00 **13**. 41
- 14. 8005 mm
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Date: Name:

Almost Extreme Level HH

•		
1	2 v 2 v 2 -	26 3 v 12 v 1 -

2.
$$7 \times 3 =$$
 27. $11 \times 5 \times 2 =$ **27.**

4.
$$4 \times 8 =$$
 29. $11 \times 3 \times 3 =$ **....**

6.
$$2 \times 5 \times 3 =$$
 _____ **31.** $11 \times 10 =$ _____

7.
$$4 \times 7 \times 2 =$$
 _____ **32.** $11 \times 3 \times 4 =$ _____

9.
$$3 \times 2 \times 3 =$$
 34. $2 \times 1 \times 1 =$

12.
$$9 \times 0 \times 2 =$$
 _____ **37.** $9 \times 4 \times 3 =$ _____

15.
$$7 \times 4 \times 3 =$$
 40. $4 \times 6 \times 3 =$

19.
$$3 \times 4 \times 3 =$$
 44. $7 \times 3 \times 2 =$

22
$$6 \times 4 \times 2 =$$
 _____ **47.** $5 \times 8 \times 2 =$ _____

Your Score:



Date:			

Name:

Level HH

Almost Extreme

5.
$$3 \times 6 \times 4 =$$
 _____ **30.** $8 \times 7 =$ ____

6.
$$2 \times 5 \times 3 =$$
 _____ **31.** $11 \times 10 =$ _____

7.
$$4 \times 7 \times 2 =$$
 _____ **32.** $11 \times 3 \times 4 =$ _____

9.
$$3 \times 2 \times 3 =$$
 _____ **34.** $2 \times 1 \times 1 =$ _____

10.
$$4 \times 9 =$$
 35. $10 \times 4 \times 3 =$

12.
$$9 \times 0 \times 2 =$$
 37. $9 \times 4 \times 3 =$

14.
$$6 \times 6 \times 2 =$$
 _____ **39.** $2 \times 0 \times 2 =$ _____

15.
$$7 \times 4 \times 3 =$$
 40. $4 \times 6 \times 3 =$ **.....**

17.
$$2 \times 2 \times 3 =$$
 42. $2 \times 7 =$

18.
$$4 \times 2 \times 2 =$$
 43. $8 \times 2 \times 2 =$

19.
$$3 \times 4 \times 3 =$$
 44. $7 \times 3 \times 2 =$ **.....**

21.
$$7 \times 7 =$$
 46. $2 \times 9 \times 5 =$ **....**

22
$$6 \times 4 \times 2 =$$
 47. $5 \times 8 \times 2 =$ **.....**

24.
$$1 \times 10 \times 5 =$$
 49. $6 \times 3 \times 4 =$ **....**

25.
$$3 \times 9 \times 4 =$$
 50. $4 \times 8 \times 3 =$



Your Score:

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	81 144	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	60	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

SUBTRACTION WITH ZEROS -DON'T BE HEROES

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23)
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7000	6000		
- 5675	- 4787		
10 000	4000		
- 7649	- 1267	e T	
700 000	600 000	100 000	40 100
- 78 605	- 22 787	- 84 919	- 22 658
			
8100	6100	10 100	4100
- 5488	- 3387	- 3349	- 1727
7001	6001	10 001	4001
- 3542	- 4465	- 2765	- 3157
7010	6010	10 010	4010
- 3485	- 5697	- 2259	- 2637

ADDITION, ADDITION, ADDITION

3999	4999	19 999	4999
+ 1431	+ 4323	+ 3 441	+ 1243
37 777	47 777	177 777	4 717
+ 32 471	+ 22 323	+ 24 111	+ 22 412
2188	5864	21 189	4167
+ 1422	+ 3323	+ 3341	+ 1323
3991	8991	13 491	5891
+ 3142	+ 4441	+ 2341	+ 3113
22 919	6459	21 319	6319
+ 3 421	+ 1413	+ 2211	+ 2433



MULTIPLICATION WITTH ZEROS

8	3981	7485	0	
MNA123,	x 700	x 400		
ers (ACN				
le numb				
description: Select and apply efficient mental and written strategies and appropriate digital technologies to solve problems involving all four operations with whole numbers (ACMNA123) 😕	19 549	4999		
rations	x 300	x 600		
four ope				
ving all †				
ms invol	36 165	65 499	13 345	6719
e proble	x 4 000	x 7 000	x 3 000	x 2000
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gital tech	2449	6619	15 567	4883
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efficient				
ıd apply	3219	46 833	14 519	78 819
select an	x 80	x 40	x 60	x 20
iption: \$				
desci				

FABULOUS FRACTIONS

Add the fractions together to create a new fraction.

(a

		3/10	% ₁₀	5/10	% 10	6
Ш	4∕5					
G	1/5					9
	2/5			% ₁₀		95
Ш	3/5					

(b)

3/4 1/4	1/2
	3/4 //4

(c)						
(-/		1	1/6	3/6	5%	
	1					
	1/6					
	3/6					
	5%					

(g)
$$\frac{1}{2} - \frac{2}{5} =$$

(j)
$$\frac{7}{8} - \frac{1}{2} =$$

(a)
$$\frac{1}{2} + 1 + \frac{1}{2} = \underline{}$$

(b)
$$\frac{4}{5} - \frac{1}{6} =$$

(e)
$$\frac{1}{6} - \frac{1}{8} =$$

(b)
$$\frac{3}{4} + \frac{3}{4} =$$

(e)
$$\frac{7}{10} + \frac{9}{10} =$$

(f)
$$\frac{11}{20} - \frac{1}{4} = \underline{}$$

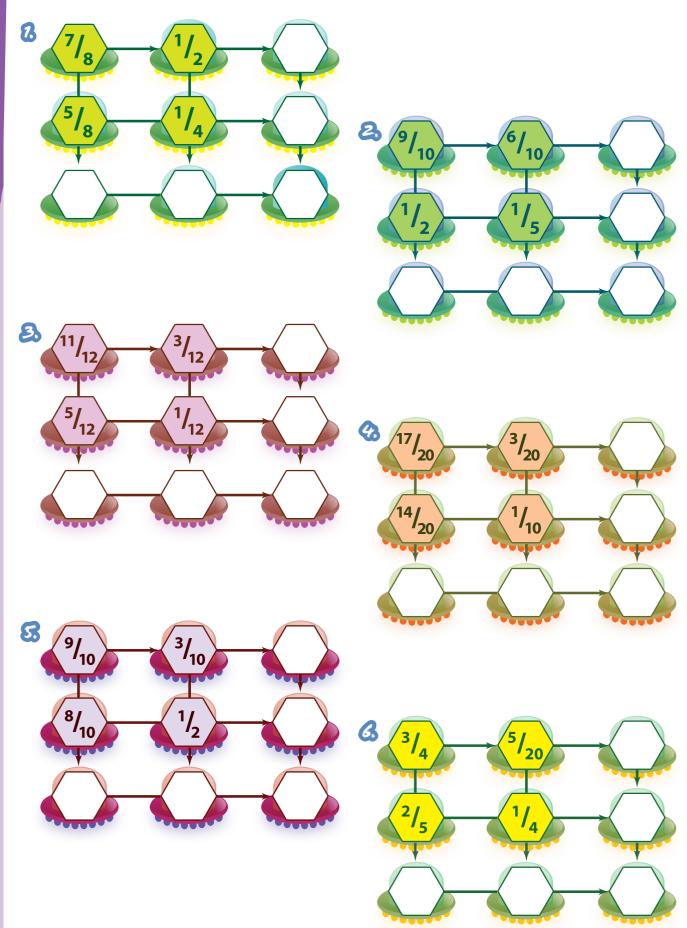
(i)
$$\%_{10} - \frac{1}{2} =$$

(f)
$$^{19}/_{20} - ^{3}/_{4} =$$

(f)
$$\frac{1}{4} + \frac{1}{2} = \underline{}$$

FRACTION SUBTRACT

Follow all the arrows to complete the fraction subtractions.



FRACTION SPACESHIPS

Add all corners to provide a central answer. (a) 1/4 1/3 1/2 % (c) Content description: Solve problems involving addition and subtraction of fractions with the same or related denominators (ACMNA126) 🗷 1/2 11/2 ³∕₁₀ 3½ (f) (e) 3/4 3/8 % 11/4 3⅓ (h) (g) 11/2 1/10 **%**10 7/10 1∕5

COME OUT TO PLAY

Work out the value of the and in each problem.



+ = 29

JUST FICK THE RIGHT ANSWER

Equation

6 + (7 x 2) =	26	12	22	20
36 ÷ (18 - 16) =	14	18	16	12
54 - (7 x 3) =	141	33	21	44
57 - 6 + 11 + 12 =	52	72	28	74
49 + (4 x 4) - 9 =	46	40	65	56
101 - (7 x 5) + 11 =	55	66	77	76
72 - (8 x 4) - 22 =	32	22	18	62
45 + 7 + (3 x 6) =	28	15	75	70
81 - 11 + (7 x 2) =	65	56	84	80
64 ÷ 8 + 10 - (3 x 2) =	18	16	6	12
63 - 9 + (5 x 5) =	5	65	79	40
54 ÷ (3 x 3) - 2 =	<u>4</u>	14	7½	3
22 - 4 + 6 + 7 =	7	5	31	19

Check these equations to see if they are correct. Remember, when a problem has only addition and subtraction included it reads from left to right.

$$(72 \div 9) + 13 - (5 \times 3) = 48$$

PATTERNS AND ALGEBRA

IF THE ANSWER IS, THEW ...

Create your own

$$- \mathcal{P} = 12$$

Create your own

Create your own

$$x = 24$$

Create your own

$$x = 48$$

Create your own

$$x = 36$$

Create your own

Create your own

x = 39

- = 10

=

Create your own

Create your own

Create your own

9 − **9** = 16

Create your own

Create your own

$$9 - 9 = 30$$

Create your own

$$- \mathcal{F} = 0$$

ADDITION

NUMBER

TEACHER INFORMATION

Objectives

Understands the role of place value when adding numbers. Calculates addition problems with numbers up to six digits.

Concepts required

Place value **Trading Problem solving**

Answers

- 592 1. (a)
 - (d) 1032
- (b) (e)

(e)

(c)

- 5351 2. (a)
- 6855 (b)
- 6242 (c)

- 10 812 (d)
- 12 218 (e)

- 3. (a) 26 214 (d) 711 914
- (b) 58 015

1 512 511

743

1084

800 499

763

- 640 4. (a)
- (b) 7216
- 13 936 (c)

- (d) 63 306
- (e) 620 219

23 490

- 5. (a) 795 107 330 (d)
- 7695 (b) 1 524 077 (e)
- (c)

- 6. (a) 368 + 355 723
- (b) 686 + 389 1075
- (c) 3242 + 1468 4710
- (d) 7045 + 2899 9944

- 321 (e) 248 + 276 845
- (f) 12 556 + 7 568 20 124
- 2061 2601 + 2004 6666
- 5976 (h) 2841 + 3503 12 320

- (i) 6 090 090 + 3 900 919
 - 9 991 009

NUMBER

+ 14 169

248

237

+155

+666666

(a)

312

+ 125

+ 2605

+ 4536

+ 54 199

199 500

0

(g)

2 4

(i)

1

2 3

0

1

6

NUMBER SENTENCES AND PATTERNS



NUMBER

TEACHER INFORMATION

Objectives

Continues and completes number patterns by following set rules. Recognises and writes missing components in number sentences.

Concepts required

Rules and patterns
Use of <, > and = signs
Using brackets first in any number sentence
Fractions, decimals, percentages

Answers

- 1. (a) 18
 - (d) 230
- (b) 46 (e) 1098
- (c) 156 (f) 6850

- •
- (b) 18
- (c) 42

- 2. (a) 7 (d) 71
- (e) 365
- (f) 2775
- 3. (a) 16, 32, 64, 128, 256 Double each number
 - (b) 16, 25, 36, 49, 64 Add on by odd numbers
 - (c) 9, 8, 11, 10, 13 Add 3, subtract 1
 - (d) 16, 64, 32, 128, 64 Halve, multiply by 4
- 4. (a) >
- (b) =
- (c) =

- (d) <
- (e) >
- (f) <

- (g) <
- (h) >
- (i) >

- 5. (a) $(7 \times 3) + 4 = 25$
 - (c) $(3 \times 3) + (10 3) > 15$
- (b) $8 + (3 \times 5) < 25$
- (e) $(11-7) \times (36 \div 12) = 12$
- (d) $(30 \times 5) 50 = 100$ (f) $(24 \div 8) \times (8 - 6) = 6$

- 6. (a) false
- (b) false
- (c) true

- (d) true
- (e) true
- (f) false

- (g) false
- (h) true
- (i) false

7. Answers will vary.

NUMBER

1. Double each number.

2. Halve each number.

3. Complete these number sequences. Write the rule.

(b) 0, 1, 4, 9, ____, ___, ___, ___, ___

(c) 2, 5, 4, 7, 6, ____, ___, ___, ___,

(d) 8, 4, 16, 8, 32, ____, ___, ___, ___

4. Use <, > or = to make these number sentences true.

5. Add brackets to make these number sentences true.

(a)
$$7 \times 3 + 4 = 25$$

(b)
$$8 + 3 \times 5 < 25$$

(c)
$$3 \times 3 + 10 - 3 > 15$$

(d)
$$30 \times 5 - 50 = 100$$

(e)
$$11 - 7 \times 36 \div 12 = 12$$

(f)
$$24 \div 8 \times 8 - 6 = 6$$

6. Write true or false.

(a)
$$19 - 6 = 12$$

(c)
$$8 + 9 + 5 = 22$$

(d)
$$\frac{1}{2} + \frac{1}{4} = 0.75$$

(h)
$$(9 \times 9) + 9 = 9 + (9 \times 9)$$

(h)
$$(9 \times 9) + 9 = 9 + (9 \times 9)$$

7. Write a number sentence to equal each number. Use each of the four operations in each number sentence.