Busy at Maths 4: Answers

May 5-15

Chapter title and chapter number

Pattern 24

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(No answers needed)

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**1.**

4 x 9 = 36 ➞ 3 + 6 = 9

5 x 9 = 45 ➞ 4 + 5 = 9

6 x 9 = 54 ➞ 5 + 4 = 9

7 x 9 = 63 ➞ 6 + 3 = 9

8 x 9 = 72 ➞ 7 + 2 = 9

9 x 9 = 81 ➞ 8 + 1 = 9

10 x 9 = 90 ➞ 9 + 0 = 9

**2.**

**(a)** 21, 32, 43, 54, 65, 76, 87,

98

**(b)** 31, 42, 53, 44, 35, 46, 57,

48, 39

**(c)** 61, 62, 72, 73, 64, 65, 75,

76, 67, 68, 78

**3.**

**(a)** even

**(b)** even

**(c)** odd

**(d)** even

**(e)** odd

**(f)** odd

**(g)** even

**(h)** even

**(i)** odd

**(j)** even

**4.**

**(a)** 9 + 6 = 15

19 + 6 = 25

29 + 6 = 35

39 + 6 = 45

49 + 6 = 55

59 + 6 = 65

69 + 6 = 75

79 + 6 = 85

**(b)** 4 + 8 = 12

14 + 8 = 22

24 + 8 = 32

34 + 8 = 42

44 + 8 = 52

54 + 8 = 62

64 + 8 = 72

74 + 8 = 82

Rule: Add 8

**(c)** 27 – 3 = 24

37 – 3 = 34

47 – 3 = 44

57 – 3 = 54

67 – 3 = 64

77 – 3 = 74

87 – 3 = 84

97 – 3 = 94

Rule: subtract 3

**(d)** 20 – 9 = 11

30 – 9 = 21

40 – 9 = 31

50 – 9 = 41

60 – 9 = 51

70 – 9 = 61

80 – 9 = 71

90 – 9 = 81

Rule: subtract 9

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**1.**

**(a)** 0, 4, 8, 12, 16, 20, 24, 28,

32, 36, 40

**(b)** 9, 18, 27, 36, 45, 54, 63, 72,

81, 90, 99, 108

**(c)** 980, 880, 780, 680, 580,

480, 380, 280, 180, 80

**(d)** 300, 325, 350, 375, 400,

425, 450, 475, 500, 525,

550, 575

**(e)** 250, 500, 750, 1000, 1250,

1500, 1750, 2000, 2250,

2500, 2750

**(f)** 975, 1000, 1025, 1050,

1075, 1100, 1125, 1150,

1175, 1200

**(g)** 1400, 1450, 1500, 550,

1600, 1650, 1700, 1750,

1800, 1850, 1900

**2.**

**(a)** 4, 8, 12, 16, 20, 24, 28

**(b)** 7, 14, 21, 28, 35, 42, 49

Rule: Add 7

**(c)** 36, 45, 54, 63, 72, 81

Rule: Add 9

**(d)** 18, 24, 30, 36, 42, 48, 54,

Rule: Add 6

**(e)** 64, 56, 48, 40, 32, 24

Rule: subtract 8

**(f)** 156, 135, 114, 93, 72, 51

Rule: subtract 21

**(g)** 450, 430, 410, 390, 370

Rule: subtract 20

**(h)** 950, 1000, 1050, 1100,

1150, 1200

Rule: Add 50

**(i)** 4000, 4250, 4500, 4750,

5000

Rule: Add 250

**(j)** 6120, 6020, 5920, 5820,

5720

Rule: Take away 100

Number Sentences 34

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**1.**

**(i)** (a) 8

(b) 9

(c) 32

**(ii)** (a) 1

(b) 1

(c) 23

**(iii)** (a) 6

(b) 6

(c) 7

**(iv)** (a) 9

(b) 4 R2

(c) 7

**2.**

9 + 21 ➞ = 30

7 x ➞ 5 = 35

5 + 5 ➞ + 5 = 15

35 ÷ ➞ 7 = 5

30 ÷ ➞ 5 = 6

30 − ➞ 5 = 25

**3.**

**(a)** >

**(b)** >

**(c)** +

**(d)** x x

**(e)** x –

**(f)** + x

**(g)** <

**(h)** ÷ –

**(i)** − +

**4.**

**(a)** <

**(b)** >

**(c)** <

**(d)** >

**(e)** <

**(f)** =

**5.**

**(a)** 700g

**(b)** 47cm

**(c)** 250ml

**(d)** 23 minutes

**(e)** 35 minutes

**(f)** €6·25

**(g)** 750m

**(h)** 350ml

**(i)** 650g

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**1.**

**(a)** 6 – 2 = 4

**(b)** 11 – 3 = 8

**(c)** 4 + 6 = 10

**(d)** 8 + 5 + 20 = 33

**(e)** 24 ÷ 8 = 3

**(f)** €20 – €13·65 = €6·35

**2.**

**(a)** 4

**(b)** 9

**(c)** 16

**(d)** 2

**(e)** 17

**(f)** 7

**(g)** 4

**(h)** 9

**(i)** 10

**3.**

**(a)** 200

**(b)** 235

**(c)** 276

**(d)** 418

**(e)** 473

**(f)** 321

**4.**

**(a)** 416

**(b)** 786

**(c)** 924

**(d)** 685

**(e)** 660

**(f)** 877

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**1.**

D = 5

A = 6

K = 11

C = 3

R = 7

O = 8

B = 1

E = 2

C O D E B R E A K E R

3 8 5 2 1 7 2 6 11 2 7

**2.**

**(a)** (6 x 4) – 5 = 19

**(b)** (38 – 6) ÷ 4 = 8

**(c)** (80 ÷ 4) x 3 = 60

**(d)** 12 + (12 x 2) = 36

**(e)** (9 x 8) + 7 = 79

**3.**

**(a)** 3 + 2 = 5 and 3 – 2 = 1

so ▲ = 3 and ■ = 2

**(b)** 2 x 5 = 10 and 5 – 2 = 3

so ● = 2 and ■ = 5

**(c)** 6 – 2 = 4 and 6 + 2 = 8

so ■ = 6 and ● = 2

**(d)** 4 + 4 = 8 and 12 ÷ 4 = 3

so ▲ = 4 and ■ = 12

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**1.** 28 – (7+9) = 12

**2.** (60 – 6) ÷ 9 = 6

**3.** (9 x 5) + (7 x 3) = 66

**4.**

**(a)** 644

**(b)** 469

**(c)** 173

**(d)** 872

**(e)** 956

**5.** €87

**6.** €13·75

**7.** (117 ÷ 9) x 7 + 117 = 208

**8.**

**(a)** (25 + 8) – 12 = 21

**(b)** (84 – 19) + 7 = 72

**(c)** (7 x 9) + 13 = 76

**(d)** (54 ÷ 6) + 4 = 13

**(e)** (8 x 9) – 5 = 67

**(f)** (54 ÷ 7) = 7 R5

**(g)** (67 + 5) ÷ 9 = 8

**(h)** (13 – 5) x 9 = 72

**(i)** (6 x 8) + 7 = 55

**Challenge:** €49·77