Busy at Maths 5: Answers

May 5-15

Chapter title and chapter number

3D Shapes 30

**PAGE 161**

**1.**

**(a)** flat

**(b)** solid

**(c)** lines

**(d)** cannot

**(e)** drawings

**(f)** don’t have

**(g)** 2-D

**(h)** cannot

**(i)** can

**2.**

**(i)** (a) circle

(b) cuboid

(c) pyramid

(d) cylinder

(e) rhombus

(f) trapezium

(g) pyramid

(h) cube

(i) semi-circle

(j) sphere

(k) cone

(l) prism

(m) pentagon

(n) triangle

**(ii)** circle, rhombus,

trapezium, semi-circle,

pentagon, triangle

**(iii)** cuboid, pyramid,

cylinder, tetrahedron,

cube, sphere, cone,

triangular prism

**(iv)** cuboid, cylinder, cube,

triangular prism

**(v)** cone, sphere, cylinder

**(vi)** circle, semi-circle

**(vii)** pyramid

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**1.**

**(a)** cube, 6, 12, 8, squares

**(b)** cuboid, 6, 12, 8,

rectangles, squares

**(c)** cylinder, 3, 2, 0, circles,

rectangles

**(d)** sphere, 1, 0, 0

**(e)** prism, 5, 9, 6, triangles,

rectangles

**(f)** pyramid, 5, 8, 5, triangles,

rectangle

**(g)** pyramid, 4, 6, 4, triangles

**(h)** prism, 7, 15, 10,

rectangles, pentagons

**(i)** cone, 2, 1, 1

**2.**

**(a)** (i) cylinder

(ii) any shape

(iii) triangular prism

(iv) cuboid

(v) cylinder

(vi) cylinder

(vii) cuboid

(viii) cuboid

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**1.**

**(a)** (i) triangular

(ii) pentagonal

(iii) rectangular

(iv) hexagonal

**2.**

**(a)** triangle

**(b)** (i) 4

(ii) 6

(iii) 4Busy at Maths

**(c)** 3

**3.**

**(a)** triangular

**(b)** hexagonal

**(c)** square

**(d)** octagonal

**4.**

**(a)** irregular

**(b)** regular

**(c)** regular

**(d)** irregular

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**1.**

**(a)** (i) tetrahedron

(ii) cuboid

(iii) hexagonal prism

(iv) pentagonal pyramid

(v) cube

(vi) square pyramid

(vii) triangular prism

**(b)** (i) sphere

(ii) cone

(iii) cylinder

**2.**

**(a)** no

**(b)** (i) 2

(ii) 1

(iii) 0

**(c)** half an orange/coconut/

globe, etc; igloo; bowl.

**3.** (d) and (e)

**4.**

**(a)** pyramids

**(b)** 8

**(c)** triangle

**(d)** yes

**Challenge 1:** Dodecahedrons,

icosahedrons

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**1.**

**(a)** cone, cylinder, cuboid,

pyramid, cube

**(b)** pyramid, cylinder,

cube, cuboid, cone,

sphere, triangular prism,

hemisphere

**2.**

**(i)** to (e);

**(ii)** to (c);

**(iii)** to (b);

**(iv)** to (d);

**(v)** to (f);

**(vi)** to (a).

**3.** (b) and (c)

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**1.**

**(a)** (i) 18

(ii) 18

(iii) 18

**(b)** (i) 11

(ii) 11

(iii) 17

**(c)** (i) 64

(ii) 64

(iii) 64

**(d)** (i) 10

(ii) 10

(iii) 40

**(e)** (i) does not

(ii) does

**2.**

**(a)** 55

**(b)** 72

**(c)** 20

**(d)** 85

**(e)** 0

**(f)** 54

**3.**

**(a)** 44

**(b)** 28

**(c)** 32

**(d)** 84

**(e)** 22

**(f)** 16.4

**(g)** 9

**(h)** 50

**(i)** 9.1

**(j)** 150.4

**(k)** 61.28

**(l)** 7.13

**(m)** 8.64

**(n)** 36.47

**(o)** 34.18

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**1.**

**(a)** 26.7

**(b)** 12.6

**(c)** 36

**(d)** 35

**(e)** 24.4

**(f)** 32

**(g)** 67

**(h)** 4

**(i)** 10

**2.**

**(a)** x + x = €85

**(b)** x = €105

**(c)** x + x = €120

**(d)** x + x – = €100

**3.**

**(a)** x + x = €13.65

**(b)** + + = €16.80

**(c)** + x – = €7.35

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**2.**

**(a)** 41, 51, 62

**(b)** 26, 37, 50

**(c)** 31, 43, 57

**(d)** 420, 400, 380

**(e)** 40, 47, 55

**(f)** 32, 64, 128

**(g)** 61, 85, 113

**(h)** 1,024, 4,096, 16,384

**(i)** 36.8, 73.6, 147.2

**3.**

**(a)** 24, 45

**(b)** 57, 81, 93

**(c)** 59, 47, 43

**(d)** 32, 8

**(e)** 6.5, 8, 11

**(f)** 20.4, 18.2, 13.8

**(g)** 67, 58

**(h)** 8 ½, 8 ¼, 8

**4.** 60 – 6

**5.**

**(a)** 25, 0 + 25

**(b)** 225, 200 + 25

**(c)** 625, 600 + 25

**(d)** 1,225, 1,200 + 25

**(e)** 2,025, 2,000 + 25

**(f)** 3,025, 3,000 + 25

**6.**

**(a)** 11

**(b)** 111

**(c)** 1,111

**(d)** 11,111

**(e)** 111,111

**(f)** 1,111,111

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**1.**

**(a)** Ana

**(b)** E

**(c)** 2021

**(d)** Dolly

**(e)** 2023

**(f)** 2025

**2.**

**2028:** Alex

Bonnie

Colin

Danielle

**2030:** Alberto

Beryl

Chris

Debby

**2050:** Arthur

Bertha

Cristobal

Dolly

**2063:** Ana

Bill

Claudette

Danny

**2074:** Arthur

Bertha

Cristobal

Dolly

**3.**

**(a)** 1, 5, 10, 10, 5, 1

**(b)** 1, 2, 3, 4, 5, 6...

**(c)** 1, 3, 6, 10, 15, 21...

**(d)** Row 1 = 1;

Row 2 = 2;

Row 3 = 4;

Row 4 = 8;

Row 5 = 16;

Row 6 = 32

**(e)** 63

Fifth Class – Teacher’s Resource Book – ANSWERS

**Challenge:** (a) Row 7: 1, 6, 15,

20, 15, 6, 1

Row 8: 1, 7, 21,

35, 35, 21, 7, 1

(c) Row 7: 64

Row 8: 128