

ANSWER/INTERPRETATION

TO

**UNDERSTANDING
QUANTITATIVE REASONING**

for

ELEMENTARY SCHOOLS

2

BY FELIX BOB ERIAMIATOR
LINCOLN LUKE OSSAI

GATEWAY UNIVERSITIES PUBLISHERS

EXERCISE 1

	102	103				107	108		
111	112		114				118		120
	122	123		125		127	128		
	132		134	135	136			139	
141			144	145	146	147			
151		153				157	158		160
	162	163		165			168		
171	172		174			177		179	
	182	183	184		186			189	190
	192		194	195			198	199	200

EXERCISE 2

	202	203	204	205			208	209	
211		213	214	215	216		218	219	220
	222	223	224	225		227	228	229	
231	232	233		235	236	237		239	240
	242	243	244	245		247	248	249	
251	252		254	255	256		258	259	260
	262	263	264	265		267	268	269	
271	272	273		275	276	277		279	
	282	283	284		286	287	288	289	
291	292	293	294	295		297	298	299	300

EXERCISE 3

- | | | | | |
|-----|-----|-----|-----|-----|
| 1. | 136 | 137 | 139 | 140 |
| 2. | 169 | 170 | 171 | 174 |
| 3. | 109 | 111 | 112 | 113 |
| 4. | 193 | 195 | 196 | |
| 5. | 207 | 208 | 209 | |
| 6. | 244 | 245 | 248 | 249 |
| 7. | 223 | 224 | 225 | |
| 8. | 147 | 148 | 150 | 151 |
| 9. | 211 | 212 | 213 | 214 |
| 10. | 134 | 135 | 136 | 139 |

EXERCISE 4

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

EXERCISE 5

1.

14

16

2.

7

9

11

3.

13

19

21

4.

16

21

5.

1

5

6.

35

40

50

7.

30

34

38

8.

100

110

120

9.

76

78

10.

35

50

EXERCISE 6

1. $\begin{array}{c} \boxed{453} \\ \boxed{451} \end{array}$

2. $\begin{array}{c} \boxed{508} \\ \boxed{506} \\ \boxed{505} \end{array}$

3. $\begin{array}{c} \boxed{604} \\ \boxed{603} \\ \boxed{600} \end{array}$

4. $\begin{array}{c} \boxed{565} \\ \boxed{563} \\ \boxed{562} \end{array}$

5. $\begin{array}{c} \boxed{388} \\ \boxed{387} \\ \boxed{386} \end{array}$

6. $\begin{array}{c} \boxed{487} \\ \boxed{486} \\ \boxed{483} \end{array}$

7. $\begin{array}{c} \boxed{341} \\ \boxed{339} \\ \boxed{337} \end{array}$

8. $\begin{array}{c} \boxed{616} \\ \boxed{615} \\ \boxed{614} \end{array}$

9. $\begin{array}{c} \boxed{593} \\ \boxed{590} \\ \boxed{589} \end{array}$

10. $\begin{array}{c} \boxed{361} \\ \boxed{359} \end{array}$

EXERCISE 7

1. 11 13 15
2. 27 29 33
3. 49 51 53
4. 101 105
5. 87 93 95
6. 130 132 136
7. 225 227 229
8. 54 58 62
9. 346 348 352
10. 405 407 411
11. 11 15 17
12. 511 515 519
13. 596 598 604
14. 200 202
15. 82 88 90
16. 532 534 538

EXERCISE 8

1. 136 137 138 139 140
2. 310 311 312 313 314
3. 225 226 227 228 229
4. 375 376 377 378 379
5. 422 423 424 425 426
6. 719 720 721 722 723
7. 593 594 595 596 597
8. 83 84 85 86 87
9. 604 605 606 607 608
10. 828 829 830 831 832

EXERCISE 9

1. 55 65 75 85 95

2. 500 600 700 800 900

3. 605 690 700 701 830

4. 454 455 456 457 458

5. 761 762 763 764 765

6. 205 206 207 208 209

7. 200 340 389 430 600

8. 504 604 704 804 904

9. 400 640 791 836 920

10. 49 86 92 104 221

EXERCISE 10

1. (199)
2. (111)
3. (301)
4. (342)
5. (407)
6. (636)
7. (779)
8. (900)
9. (844)
10. (926)

EXERCISE 11

1. 938

2. 341

3. 736

4. 104

5. 471

6. 904

7. 900

8. 834

9. 734

10. 432

EXERCISE 12

1. 338 339 341

2. 623 624 626

3. 730 731 732

4. 541 542 544

5. 836 838 839

6. 275 277 278

7. 436 437 438 439

8. 163 165 166

9. 918 919 921 922

10. 605 607 608

EXERCISE 13

1. 106

2. 29

3. 101

4. 43

5. 106

6. 109

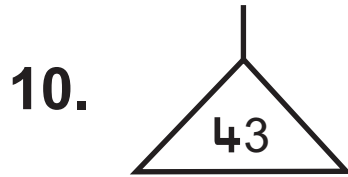
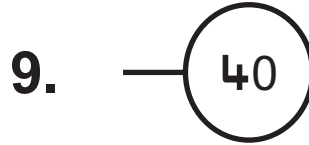
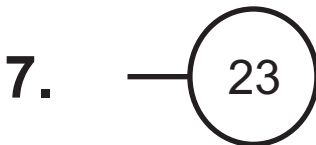
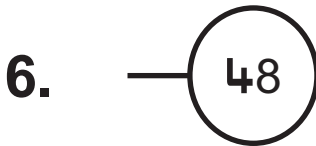
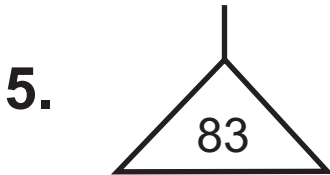
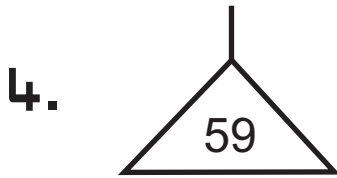
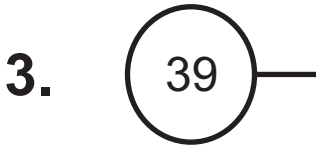
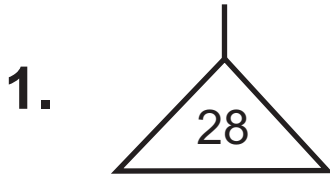
7. 536

8. 200

9. 143

10. 403

EXERCISE 4



EXERCISE 15

1. —

41

8. —

22

2. —

23

9. —

81

3.

19

10.

24

4.

23

5. —

41

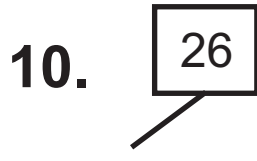
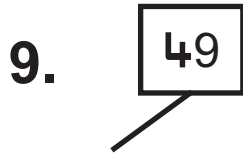
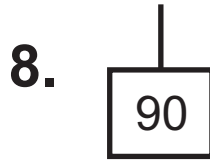
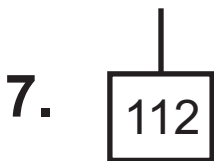
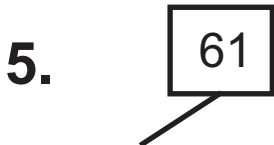
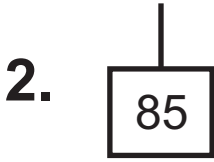
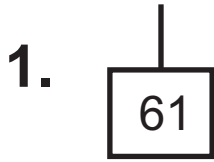
6.

13

7.

21

EXERCISE 16



EXERCISE 17

1. (20)

9. (11)

2. (11)

10. (8)

3. (14)

4. (9)

5. (14)

6. (17)

7. (31)

8. (10)

EXERCISE 18

1. 30

9. 14

2. 40

10. 8

3. 8

4. 14

5. 6

6. 20

7. 9

8. 5

EXERCISE 19

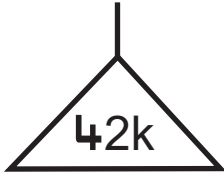
1.
2.
3.
4.
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6.
7.
8.
9.
10.

EXERCISE 20

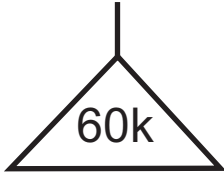
1.
2.
3.
4.
5.
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7.
8.
9.
10.

EXERCISE 21

1.



2.



3.



4.



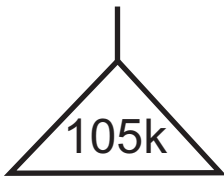
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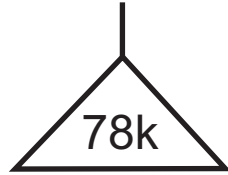
6.



7.



8.



9.



10.



EXERCISE 22



EXERCISE 23

$$1. \quad \underline{2} + \underline{3} = \boxed{5}$$

$$2. \quad \underline{2} + \underline{5} = \boxed{7}$$

$$3. \quad \underline{3} + \underline{5} = \boxed{8}$$

$$4. \quad \underline{2} + \underline{3} + \underline{5} = \boxed{10}$$

$$5. \quad \underline{3} - \underline{2} = \boxed{1}$$

$$6. \quad \underline{5} - \underline{2} = \boxed{3}$$

$$7. \quad \underline{5} - \underline{3} = \boxed{2}$$

$$8. \quad \underline{2} + \underline{3} - \underline{5} = \boxed{0}$$

$$9. \quad \underline{3} + \underline{5} - \underline{2} = \boxed{6}$$

$$10. \quad \underline{2} + \underline{5} - \underline{3} = \boxed{4}$$

EXERCISE 24

- | | | | |
|-----|----|-----|----|
| 1. | 8 | 11. | 10 |
| 2. | 15 | 12. | 26 |
| 3. | 5 | 13. | 16 |
| 4. | 13 | 14. | 7 |
| 5. | 13 | 15. | 17 |
| 6. | 17 | 16. | 33 |
| 7. | 1 | 17. | 1 |
| 8. | 6 | 18. | 35 |
| 9. | 20 | 19. | 3 |
| 10. | 2 | 20. | 15 |

EXERCISE 25

1.

2	15	25
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11.

19	21	14
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2.

13	21	19	9	3
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12.

2	1	14	4
---	---	----	---

3.

3	12	1	19	19
---	----	---	----	----

13.

1	16	18	9	12
---	----	----	---	----

4.

4	9	4
---	---	---

14.

6	15	15	4
---	----	----	---

5.

13	1	14
----	---	----

6.

19	20	1	18
----	----	---	----

7.

13	1	20
----	---	----

8.

1	2	1
---	---	---

9.

19	9	24
----	---	----

10.

7	15	15	4
---	----	----	---

EXERCISE 26

1.

8	15	21	18
---	----	----	----

2.

5	9	7	8	20
---	---	---	---	----

3.

5	12	5	22	5	14
---	----	---	----	---	----

4.

6	9	6	20	5	5	14
---	---	---	----	---	---	----

5.

20	8	18	5	5
----	---	----	---	---

6.

15	14	5
----	----	---

7.

20	23	5	12	22	5
----	----	---	----	----	---

8.

20	5	14
----	---	----

9.

19	9	24
----	---	----

10.

14	9	14	5
----	---	----	---

11.

20	23	15
----	----	----

12.

6	9	22	5
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EXERCISE 27

1. 6 15 18 20 25

2. 20 23 5 14 20 25

3. 20 23 14

4. 14 9 14 5 20 25

5. 19 9 24 20 25

6. 6 9 6 20 25

7. 5 9 7 8 20 25

8. 19 9 24 20 25 15 14 5

9. 19 5 22 5 14 20 25

10. 14 9 14 5

EXERCISE 28

1.

t	a	b	l	e
20	1	2	12	5

9.

f	a	t	h	e	r
6	1	20	8	5	18

2.

s	c	h	o	o	L
19	3	8	15	15	12

10.

t	a	p	e
20	1	16	5

3.

t	e	s	t
20	5	19	20

4.

p	o	l	i	c	e
16	15	12	9	3	5

5.

c	h	a	i	r
3	8	1	9	18

6.

m	o	t	h	e	r
13	15	20	8	5	18

7.

t	e	a
20	5	1

8.

e	x	a	m
5	24	1	13

EXERCISE 29

1. $\underline{1}$ $\underline{2}$ $\underline{3}$

2. $\underline{3}$ $\underline{4}$ $\underline{5}$ $\underline{7}$

3. $\underline{3}$ $\underline{6}$ $\underline{7}$ $\underline{2}$

4. $\underline{1}$ $\underline{6}$ $\underline{5}$ $\underline{7}$

5. $\underline{7}$ $\underline{4}$ $\underline{8}$

6. $\underline{1}$ $\underline{6}$ $\underline{3}$

7. $\underline{5}$ $\underline{1}$ $\underline{6}$ $\underline{8}$ $\underline{2}$

8. $\underline{3}$ $\underline{4}$ $\underline{8}$ $\underline{2}$

9. $\underline{1}$ $\underline{6}$ $\underline{7}$ $\underline{2}$

10. $\underline{5}$ $\underline{1}$ $\underline{6}$ $\underline{7}$ $\underline{2}$

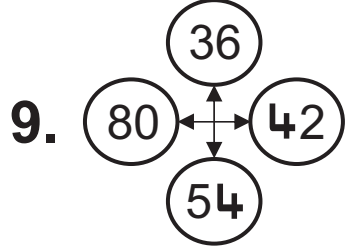
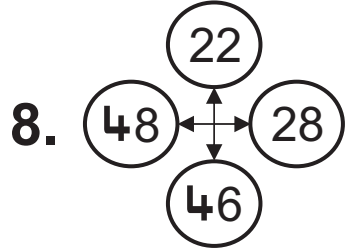
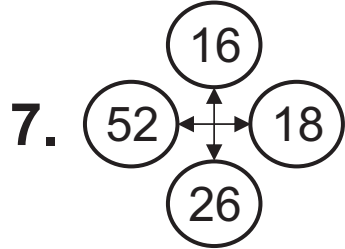
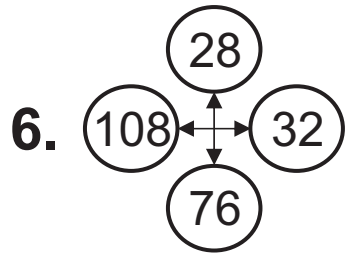
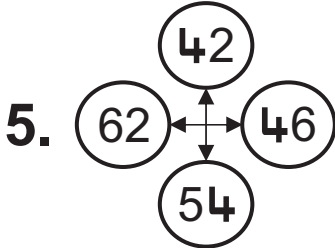
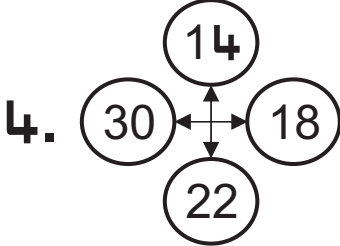
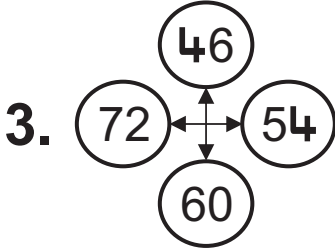
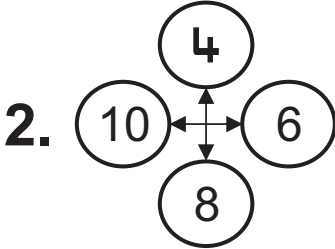
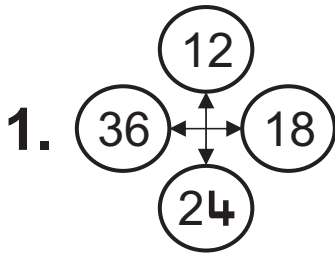
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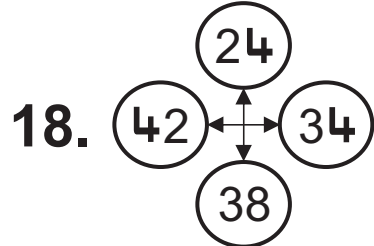
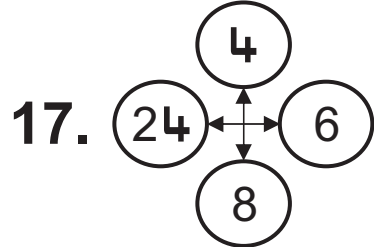
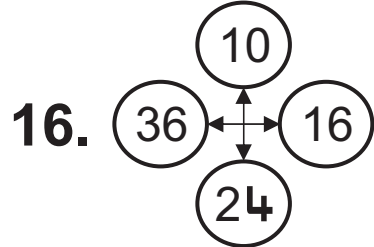
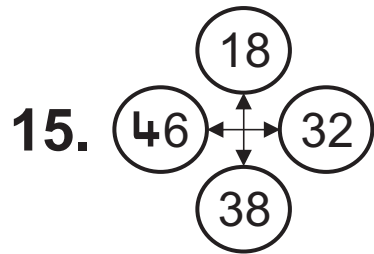
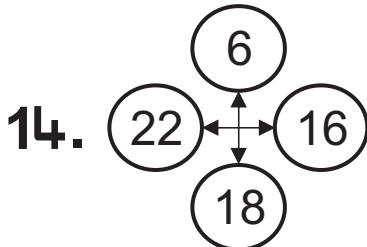
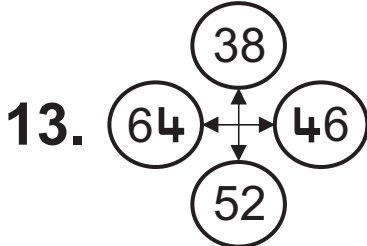
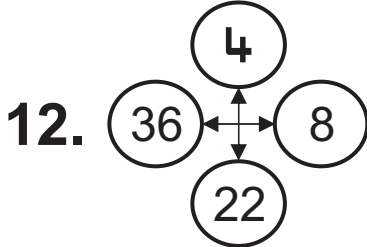
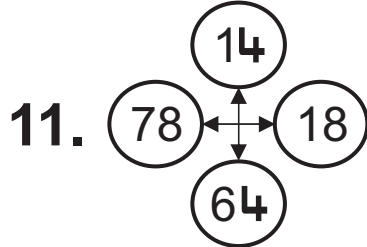
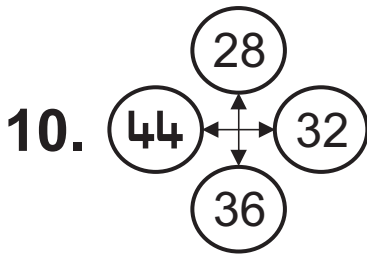
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2. (30) (32) (40)
3. (46) (48) (50)
4. (10) (12)
5. (4) (6) (8) (14)
6. (70) (76) (78)
7. (4) (8) (10)
8. (58) (62) (64)
9. (6) (8) (12)
10. (20) (28) (30)

EXERCISE 31

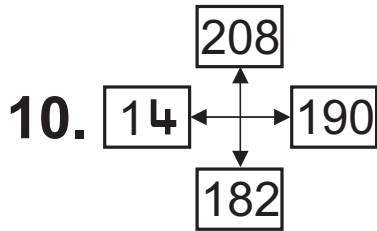
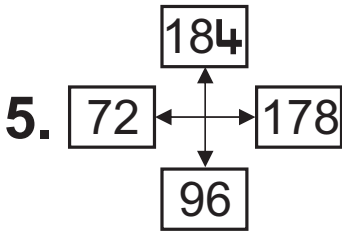
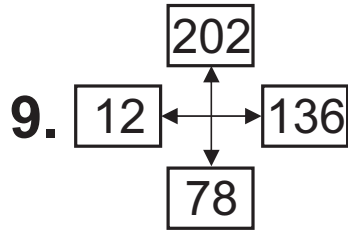
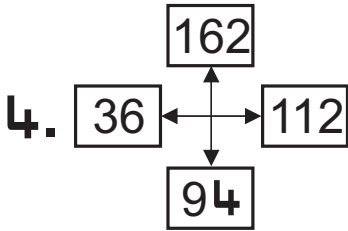
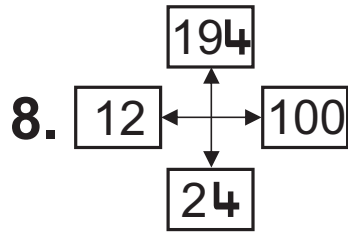
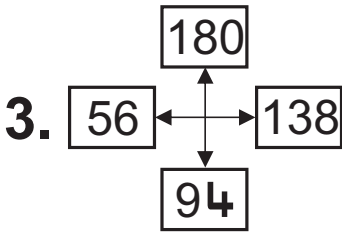
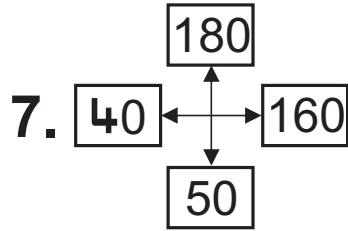
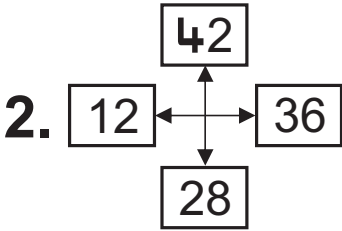
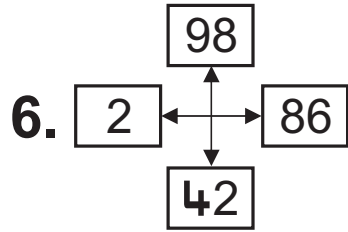
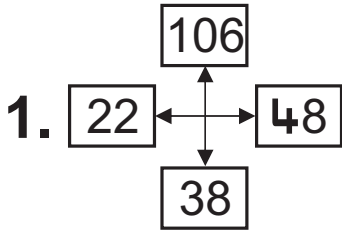
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2. (102) (168)
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4. (436) (502)
5. (116) (132) (144)
6. (260) (246) (372)
7. (402) (438) (466)
8. (18) (36)
9. (734) (790)
10. (520) (544) (560)

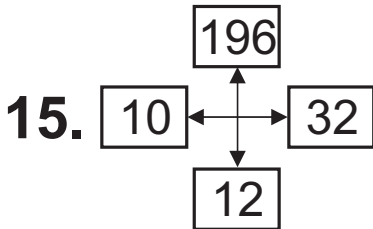
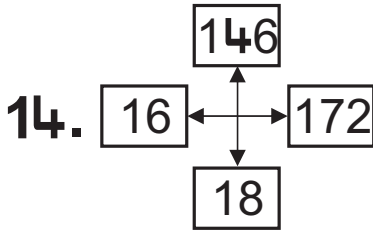
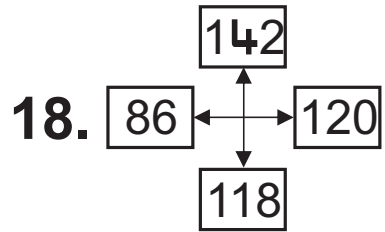
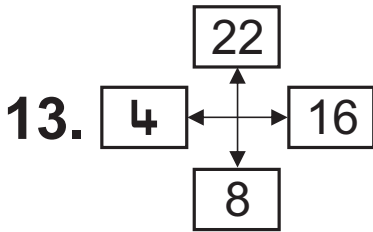
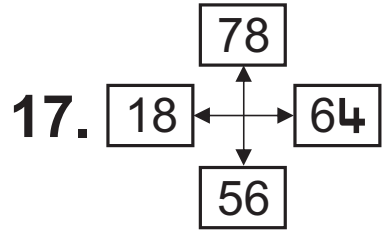
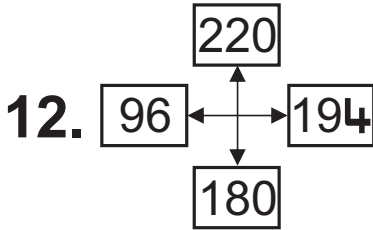
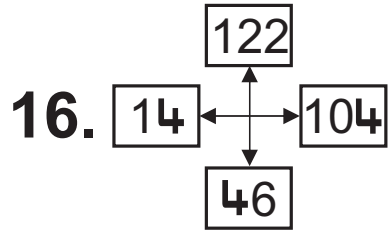
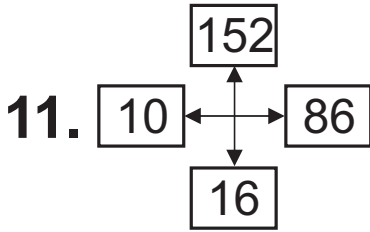
EXERCISE 32





EXERCISE 33

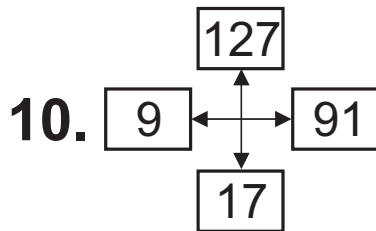
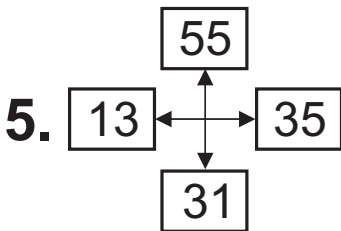
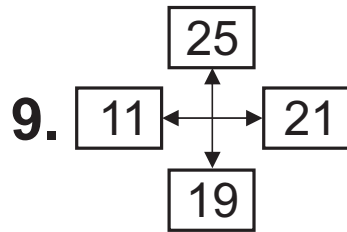
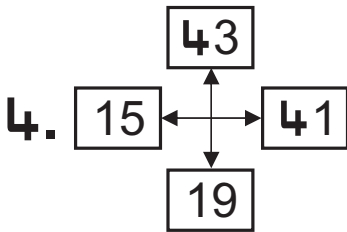
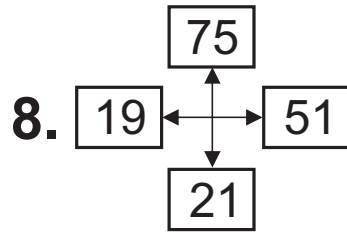
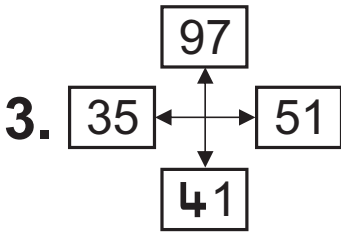
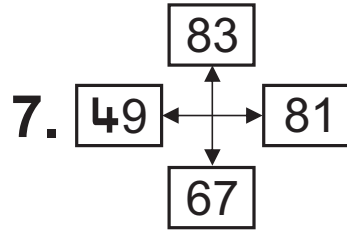
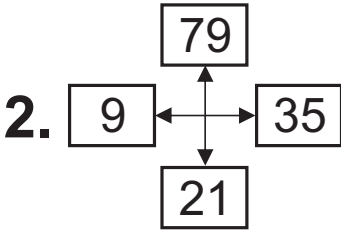
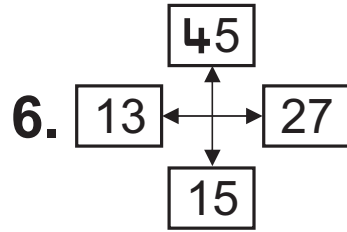
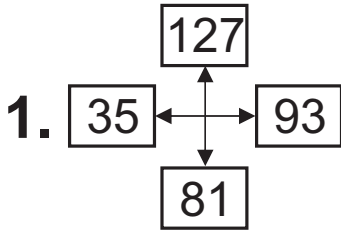


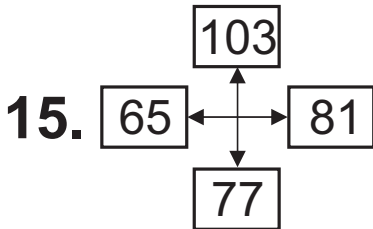
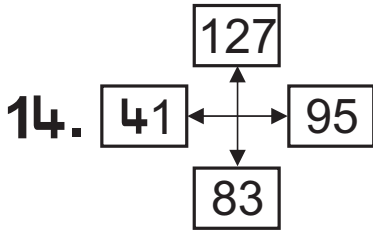
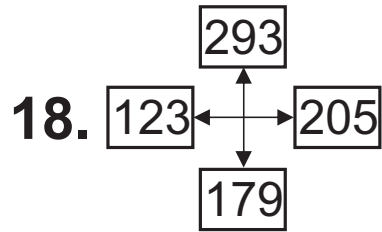
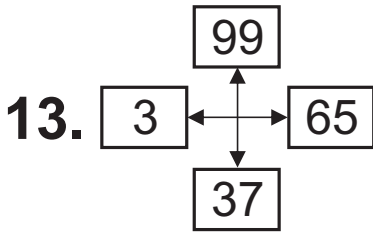
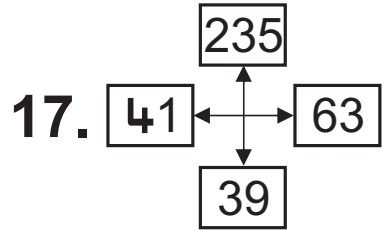
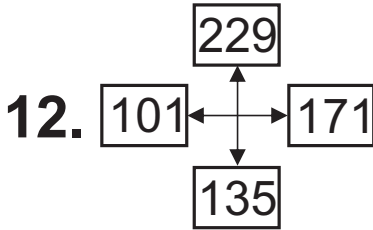
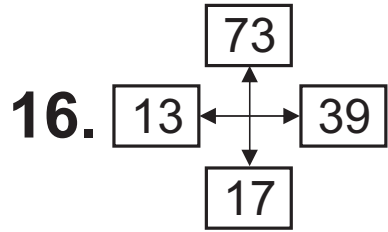
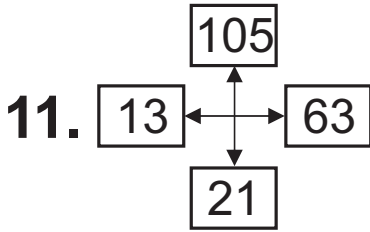


EXERCISE 3+

1. (17) (21) (33)
2. (33) (37) (49)
3. (7) (5) (9) (3)
4. (51) (53) (65)
5. (105) (107) (103)
6. (147)
7. (13) (101) (143) (135)
8. (187) (173) (161)
9. (131) (163) (135) (133)
10. (43) (51)

EXERCISE 35





EXERCISE 36

1.

11.

2.

12.

3.

4.

5.

6.

7.

8.

9.

10.


EXERCISE 37



EXERCISE 38

1. 

2. 

3. 

4. 

5. 

6. 

7. 

8. 

9. 

10. 

EXERCISE 39

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

EXERCISE 4 0

1.
2.
3.
4.
5.
6.
7.
8.
9.
10.

EXERCISE 4 1

1. $\boxed{77}$ $\{ (3 \times 7) + (8 \times 7) \}$
2. $\textcircled{1}$ $\left\{ \frac{27 - (5 \times 4)}{7} \right\}$
3. $\textcircled{1}$ $\left\{ \frac{25 - (3 \times 6)}{7} \right\}$
4. $\boxed{32}$ $\{ (2 \times 6) + (5 \times 4) \}$
5. $\boxed{1}$ $\left\{ \frac{88 - (7 \times 12)}{4} \right\}$
6. $\boxed{185}$ $\{ (7 \times 5) + (15 \times 10) \}$
7. $\textcircled{2}$ $\left\{ \frac{78 - (8 \times 6)}{15} \right\}$
8. $\boxed{58}$ $\{ (6 \times 3) + (5 \times 8) \}$
9. $\textcircled{2}$ $\left\{ \frac{245 - (15 \times 15)}{10} \right\}$
10. $\textcircled{2}$ $\left\{ \frac{130 - (12 \times 5)}{35} \right\}$

EXERCISE 4 2

1. $\textcircled{26}$ $\{ (3 \times 7) + (7 \times 2) \}$
2. $\boxed{4}$ $\left\{ \frac{68 - (8 \times 6)}{5} \right\}$
3. $\boxed{6}$ $\left\{ \frac{53 - (7 \times 5)}{3} \right\}$
4. $\textcircled{33}$ $\{ (6 \times 3) + (3 \times 5) \}$
5. $\boxed{2}$ $\left\{ \frac{42 - (4 \times 6)}{9} \right\}$
6. $\textcircled{62}$ $\{ (7 \times 6) + (4 \times 5) \}$
7. $\boxed{3}$ $\left\{ \frac{57 - (11 \times 3)}{8} \right\}$
8. $\boxed{9}$ $\left\{ \frac{30 - (3 \times 4)}{2} \right\}$
9. $\textcircled{51}$ $\{ (7 \times 5) + (4 \times 4) \}$
10. $\textcircled{8}$ $\left\{ \frac{102 - (5 \times 6)}{9} \right\}$

EXERCISE 4 3

- | | | | |
|-----|----|-----|----|
| 1. | 6 | 11. | 10 |
| 2. | 10 | 12. | 10 |
| 3. | 3 | 13. | 11 |
| 4. | 6 | 14. | 11 |
| 5. | 3 | 15. | 12 |
| 6. | 9 | 16. | 12 |
| 7. | 5 | 17. | 7 |
| 8. | 11 | 18. | 9 |
| 9. | 12 | 19. | 1 |
| 10. | 11 | 20. | 5 |

EXERCISE 44

Circle the multiples of 2

1 (2) 3 (4) 5 (6) 7 (8) 9 (10)
11 (12) 13 (14) 15 (16) 17 (18) 19 (20)
21 (22) 23 (24) 25 (26) 27 (28) 29 (30)
31 (32) 33 (34) 35 (36) 37 (38) 39 (40)

Circle the multiples of 3

1 2 (3) 4 5 (6) 7 8 (9) 10
11 (12) 13 14 (15) 16 17 (18) 19 20
(21) 22 23 (24) 25 26 (27) 28 29 (30)
31 32 (33) 34 35 (36) 37 38 (39) 40

EXERCISE 4 5

Circle the multiples of 4

1 2 3 (4) 5 6 7 (8) 9 10
11 (12) 13 14 15 (16) 17 18 19 (20)
21 22 23 (24) 25 26 27 (28) 29 30
31 (32) 33 34 35 (36) 37 38 39 (40)

Circle the multiples of 5

1 2 3 4 (5) 6 7 8 9 (10)
11 12 13 14 (15) 16 17 18 19 (20)
21 22 23 24 (25) 26 27 28 29 (30)
31 32 33 34 (35) 36 37 38 39 (40)

Circle the multiples of 6

1 2 3 4 5 (6) 7 8 9 10
11 (12) 13 14 15 16 17 (18) 19 20
21 22 23 (24) 25 26 27 28 29 (30)
31 32 33 34 35 (36) 37 38 39 40

EXERCISE 4 6

1. $\frac{1}{4}$

2. $\frac{1}{3}$

3. $\frac{1}{8}$

4. 1

5. $\frac{1}{8}$

6. $\frac{3}{4}$

7. 1

8. $\frac{1}{2}$

9. $\frac{1}{4}$

10. $\frac{3}{4}$

EXERCISE 4 7

1. $\frac{1}{3}$

2. $\frac{5}{8}$

3. $\frac{3}{8}$

4. $\frac{1}{2}$

5. 1

6. $\frac{1}{2}$

7. $\frac{2}{7}$

8. $\frac{3}{4}$

9. $\frac{3}{8}$

10. 1

EXERCISE 4 8

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

EXERCISE 4 9

- | | | | |
|-----|--------------------------------|-----|--------------------------------|
| 1. | <input type="text" value="3"/> | 11. | <input type="text" value="4"/> |
| 2. | <input type="text" value="1"/> | 12. | <input type="text" value="5"/> |
| 3. | <input type="text" value="1"/> | 13. | <input type="text" value="9"/> |
| 4. | <input type="text" value="2"/> | 14. | <input type="text" value="7"/> |
| 5. | <input type="text" value="2"/> | 15. | <input type="text" value="3"/> |
| 6. | <input type="text" value="5"/> | 16. | <input type="text" value="2"/> |
| 7. | <input type="text" value="4"/> | | |
| 8. | <input type="text" value="4"/> | | |
| 9. | <input type="text" value="2"/> | | |
| 10. | <input type="text" value="2"/> | | |

EXERCISE 50

1.
2.
3.
4.
5.
6.
7.
8.
9.
10.

EXERCISE 51

1. $\textcircled{4}$
2. $\textcircled{3}$
3. $\textcircled{5}$
4. $\textcircled{8}$
5. $\textcircled{35}$
6. $\textcircled{48}$
7. $\textcircled{9}$
8. $\textcircled{77}$
9. $\textcircled{60}$
10. $\textcircled{8}$

EXERCISE 52

1. $2 \times 12 = \frac{24}{4} = 6$

2. $1 \times 27 = \frac{27}{3} = 9$

3. $2 \times 30 = \frac{60}{5} = 12$

4. $2 \times 49 = \frac{98}{7} = 14$

5. $3 \times 32 = \frac{64}{4} = 16$


6. $1 \times 30 = \frac{30}{5} = 6$


7. $3 \times 12 = \frac{36}{4} = 9$


8. $1 \times 16 = \frac{16}{4} = 4$


9. $2 \times 25 = \frac{50}{5} = 10$


10. $3 \times 28 = \frac{84}{4} = 21$


11. $3 \times 70 = \frac{210}{5} =$ 


12. $1 \times 42 = \frac{42}{6} =$ 


13. $2 \times 45 = \frac{90}{5} =$ 

14. $1 \times 18 = \frac{18}{3} =$ 

15. $1 \times 12 = \frac{12}{2} =$ 

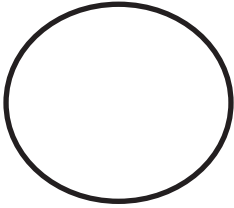
16. $3 \times 80 = \frac{240}{4} =$ 

17. $1 \times 22 = \frac{22}{2} =$ 

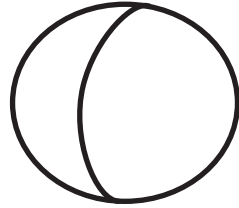
18. $3 \times 50 = \frac{150}{5} =$ 

EXERCISE 53

1.



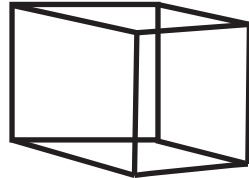
6.



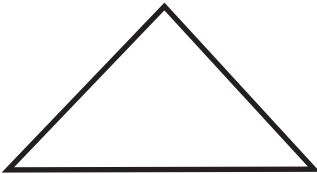
2.



7.



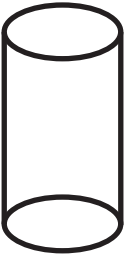
3.



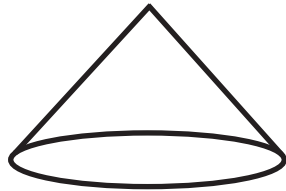
8.



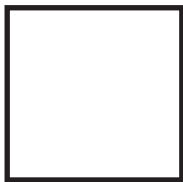
4.



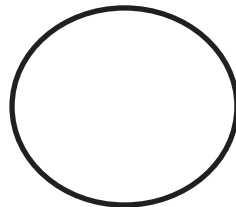
9.



5.

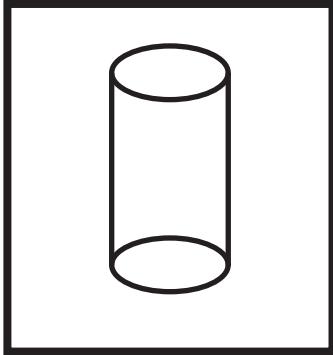


10.



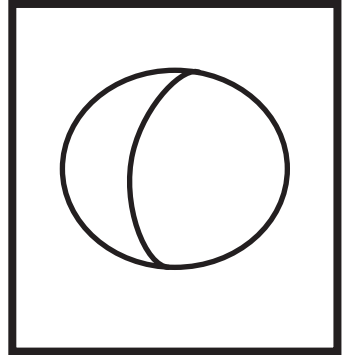
EXERCISE 54

1.



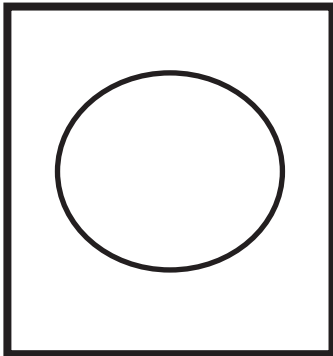
Cylinder

4.



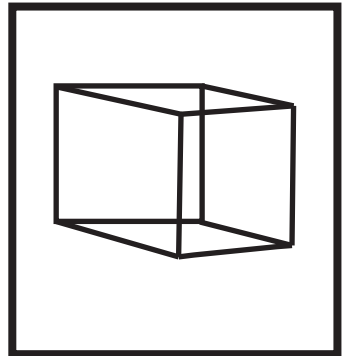
Sphere

2.



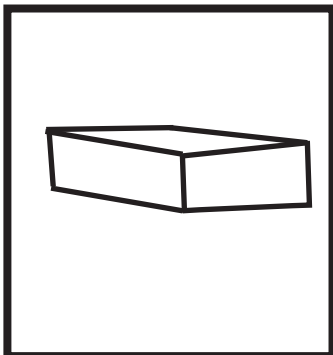
Circle

5.



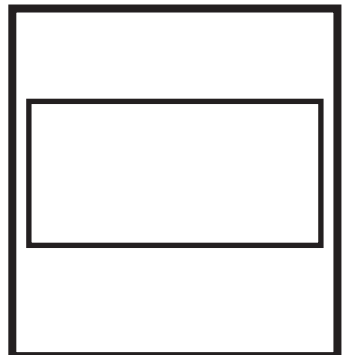
Cube

3.



Cuboid

6.



Rectangle

EXERCISE 55

1. \succ

2. \succ

3. \prec

4. \prec

5. \succ

6. \succ

7. \prec

8. \prec

9. \prec

10. \succ

11. \succ

12. \succ

13. \succ

14. \prec

15. \prec

16. \succ

17. \prec

18. \succ

19. \succ

20. \prec

EXERCISE 56

1. $>$

11. $<$

2. $<$

12. $>$

3. $>$

13. $>$

4. $>$

14. $<$

5. $>$

15. $<$

6. $<$

16. $>$

7. $>$

17. $<$

8. $<$

18. $<$

9. $>$

19. $<$

10. $<$

20. $>$

EXERCISE 57

1. =

11. $<$

2. $<$

12. $>$

3. $>$

13. $<$

4. $>$

14. $>$

5. =

15. =

6. $<$

16. $<$

7. $>$

17. $<$

8. $<$

18. =

9. $<$

19. $<$

10. =

20. $<$

REVISION 1

1.

15 20

2.

10 40 50

3.

60 80

4.

103 104 105

5.

71 73

6.

20 25 40

7.

45 55 60

8.

82 83 84

9.

80 110 120

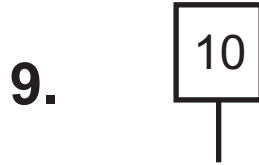
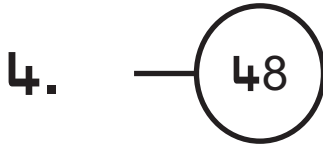
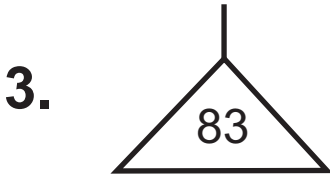
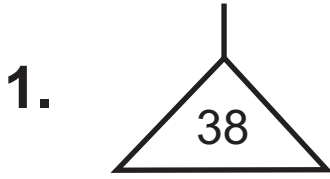
10.

74 78

REVISION 2

1. 28 35 42 45 70
2. 77 98 100 140 201
3. 99 154 180 200 235
4. 375 376 377 378 379
5. 720 721 722 723 724
6. 83 84 85 86 87
7. 500 600 700 800 900
8. 200 340 389 430 600
9. 504 604 704 804 904
10. 454 455 456 457 458

REVISION 3



REVISION 4

1. (20)
2. (10)
3. (14)
4. (14)
5. (10)
6. [30]
7. (8)
8. (14)
9. (6)
10. (6)

REVISION 5

1. 20 23 5 14 20 25

2. 14 9 14 5 20 25

3. 19 5 22 5 14 20 25

4. 19 9 24 20 25

5. 7 15 15 4

6. 1 16 18 9 12

7. 6 1 14

8. 19 21 14

9. 6 15 15 4

REVISION 6

Circle the even numbers

1. (102) (110)

2. (94) (120)

3. (2) (34) (62)

4. (300) (382)

5. (46) (48) (50)

Circle the odd numbers

1. (147)

2. (199)

3. (17) (21) (77)

4. (15) (103) (153) (135)

5. (221) (211) (305)

REVISION 7

(A)

1.

9

2.

45

3.

5

4.

7

5.

3

(B)

1.

$$2 \times 25 = \frac{50}{5} = 10$$

2.

$$1 \times 30 = \frac{30}{2} = 15$$

3.

$$3 \times 50 = \frac{150}{5} = 30$$

4.

$$1 \times 32 = \frac{32}{4} = 8$$

5.

$$1 \times 42 = \frac{42}{6} = 7$$