BROAD HORIZON
TUITION

11+ Tuition

Year 4

Week 5

Revision Lesson

ANSWERS

Maths

Multiplying and Dividing Numbers by 10, 100 and 100

Answers

1. Use the multiplication and division facts below to fill in the missing numbers to complete the calculations

Multiplication/Division Fact	Missing number calculation
6.4 × 10 = 64	64 ÷ 10 = **6.4**
75 ÷ 10 = 7.5	7.5 × 10 = **75**
6530 ÷ 100 = 65.3	65.3 × 100 = **6530**
24.5 × 100 = 2450	2450 ÷ 100 = **24.5**
7.6 × 1000 = 7600	7600 ÷ 1000 = **7.6**
45 ÷ 100 = 0.45	0.45 × 100 = **45**

2. Fill in the missing numbers in these multiplication calculations:

a. 53 × **10** = 530

b. **34** × 10 = 340

c. 38 × **100** = 3800

d. **4** × 1000 = 4000

3. Fill in the missing numbers in these division calculations:

a. 67 ÷ **10** = 6.7

b. 854 ÷ **100** = 8.54

c. **3000** ÷ 1000 = 3

d. **53** ÷ 100 = 0.53

4. Complete the following table

	× 10	÷ 10
467	**4670**	**46.7**
56	560	**5.6**
7	**70**	0.7
23	**230**	**2.3**

Answers

1. Fill in the missing numbers in these multiplication calculations:

a. 476 × **10** = 4760

b. **2.4** × 10 = 24

c. 75 × **100** = 7500

d. **5.67** × 1000 = 5670

e. 73.4 × **100** = 340

f. **867** × 10 = 8670

2. Fill in the missing numbers in these division calculations:

a. 765 ÷ **100** = 7.65

b. **180** ÷ 10 = 18

c. **6560** ÷ 1000 = 9.56

d. 23 ÷ **100** = 0.23

e. **68** ÷ 10 = 6.8

f. 340 ÷ **1000** = 0.34

3. Complete the following table

	× 10	÷ 10	× 100	÷ 100
38	**380**	**3.8**	**3800**	**0.38**
74	**740**	7.4	**7400**	**0.74**
67.3	**673**	**6.73**	6730	**0.673**
45	**450**	**4.5**	**4500**	0.45
57.9	579	**5.79**	**5790**	**0.579**
76.5	**765**	**7.65**	7650	**0.765**

Answers

1. Fill in the missing numbers in the following multiplication and division calculations:

a. 567 ÷ 100= 5.67

b. 0.67 × 10 = 6.7

c. 4578 ÷ 1000 = 4.578

d. 29 × 100 = 2900

e. 657 × 10 = 6570

f. 7200 ÷ 100 = 72

g. 6.7 × 1000 = 6700

h. 487 ÷ 100 = 4.87

i. 71 ÷ 1000 = 0.071

j. 0.34 × 100 = 34

2. Complete the following table

	× 10	÷ 10	× 100	÷ 100	× 1000	÷ 1000
863	**8630**	86.3	**86 300**	**8.63**	**863 000**	**0.863**
423.8	**4238**	**42.38**	**42 380**	04.238	**423 800**	**0.4238**
3.78	**37.8**	**0.378**	378	**0.0378**	**3780**	**0.00378**
48.9	489	**4.89**	**4890**	**0.489**	**48 900**	**0.0489**
30	**300**	**3**	**3000**	0.3	**30 000**	**0.03**
80	**800**	**8**	**8000**	**0.8**	**80 000**	0.08

Name Date

MULTIPLY & DIVIDE BY 10 AND 100 SHEET 2 ANSWERS

A) Multiply these numbers by 10 or 100.

1) 0.42 x 10 = 4.2
2) 1.72 x 10 = 17.2
3) 100 x 12.6 = 1260
4) 4.09 x 100 = 409
5) 10 x 1.35 = 13.5
6) 2.9 x 100 = 290
7) 10 x 0.58 = 5.8
8) 3.74 x 100 = 374
9) 10 x 6.87 = 68.7

B) Divide these numbers by 10 or 100.

1) 312 ÷ 10 = 31.2
2) 9.7 ÷ 10 = 0.97
3) 815 ÷ 100 = 8.15
4) 274 ÷ 100 = 2.74
5) 14.8 ÷ 10 = 1.48
6) 341 ÷ 10 = 34.1
7) 63 ÷ 100 = 0.63
8) 104 ÷ 10 = 10.4
9) 3 ÷ 100 = 0.03

*C) **10** or **100** times **bigger** or **smaller**? Circle the correct amounts.*

1) **7.3** is 10x (100x) *bigger* (*smaller*) *than* **730**
1) **14.5** is (10x) 100x (*bigger*) *smaller* *than* **1.45**
2) **743** is 10x (100x) (*bigger*) *smaller* *than* **7.43**
3) **452** is (10x) 100x (*bigger*) *smaller* *than* **45.2**
4) **0.17** is 10x (100x) *bigger* (*smaller*) *than* ***17***

D) Multiply or divide these numbers by 10 or 100.

1) 13.5 x 10 = 135
2) 100 x 0.64 = 64
3) 128 ÷ 100 = 1.28
4) 9.6 ÷ 10 = 0.96
5) 3.25 x 100 = 325
6) 53.9 ÷ 10 = 5.39
7) 645 ÷ 100 = 6.45
8) 10 x 6.42 = 64.2
9) 5.8 x 100 = 580
10) 7.2 ÷ 10 = 0.72
11) 0.46 x 10 = 4.6
12) 43 ÷ 100 = 0.43

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MULTIPLY & DIVIDE BY 10 AND 100 SHEET 3 ANSWERS

A) Multiply these numbers by 10 or 100.

1)	5.47 x 10 = 54.7	2)	0.752 x 10 = 7.52	3)	100 x 1.26 = 126
4)	2.019 x 100 = 201.9	5)	10 x 1.035 = 10.35	6)	52.29 x 100 = 5229
7)	10 x 0.198 = 1.98	8)	3.754 x 100 = 375.4	9)	10 x 6.827 = 68.27

B) Divide these numbers by 10 or 100.

1)	31.2 ÷ 10 = 3.12	2)	9.07 ÷ 10 = 0.907	3)	81.5 ÷ 100 = 0.815
4)	27.4 ÷ 100 = 0.274	5)	148 ÷ 100 = 1.48	6)	34.1 ÷ 10 = 3.41
7)	763 ÷ 100 = 7.63	8)	3.07 ÷ 10 = 0.307	9)	13 ÷ 100 = 0.13

*C) **10** or **100** times **bigger** or **smaller**? Circle the correct amounts.*

1) **2.73** is (10x) 100x *bigger* (*smaller*) *than* **27.3**

1) **0.147** is (10x) 100x *bigger* (*smaller*) *than* **1.47**

2) **54.3** is 10x (100x) (*bigger*) *smaller* *than* **0.543**

3) **0.95** is (10x) 100x (*bigger*) *smaller* *than* **0.095**

4) **0.704** is 10x (100x) *bigger* (*smaller*) *than* ***70.4***

D) Multiply or divide these numbers by 10 or 100.

1)	1.35 x 10 = 13.5	2)	100 x 0.651 = 65.1	3)	42.8 ÷ 100 = 0.428
4)	5.2 ÷ 10 = 0.52	5)	0.275 x 100 = 27.5	6)	73.16 ÷ 10 = 7.316
7)	54.3 ÷ 100 = 0.543	8)	10 x 0.673 = 6.73	9)	5.08 x 100 = 508
10)	92.7 ÷ 10 = 9.27	11)	0.426 x 10 = 4.26	12)	183 ÷ 100 = 1.83

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441 x 56 = 24696	148 x 24 = 3552	497 x 21 = 10437	697 x 76 = 52972
522 x 54 = 28188	445 x 25 = 11125	229 x 96 = 21984	972 x 60 = 58320
244 x 18 = 4392	552 x 16 = 8832	474 x 18 = 8532	508 x 75 = 38100
207 x 57 = 11799	738 x 68 = 50184	832 x 98 = 81536	215 x 14 = 3010

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173 x 84 = 14532	391 x 83 = 32453	292 x 48 = 14016	263 x 21 = 5523
252 x 42 = 10584	919 x 51 = 46869	829 x 73 = 60517	303 x 26 = 7878
866 x 50 = 43300	550 x 62 = 34100	718 x 67 = 48106	851 x 26 = 22126
715 x 23 = 16445	202 x 71 = 14342	658 x 53 = 34874	805 x 57 = 45885

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1665 x 15 = 24975	1844 x 88 = 162272	1735 x 96 = 166560	2430 x 21 = 51030
2324 x 32 = 74368	1629 x 54 = 87966	1302 x 93 = 121086	1788 x 74 = 132312
1058 x 77 = 81466	1971 x 37 = 72927	1483 x 49 = 72667	1198 x 78 = 93444
1307 x 52 = 67964	2361 x 33 = 77913	2453 x 47 = 115291	1086 x 45 = 48870

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1632 x 13 = 21216	1066 x 52 = 55432	1170 x 35 = 40950	2412 x 21 = 50652
2144 x 32 = 68608	2135 x 64 = 136640	1831 x 52 = 95212	1514 x 44 = 66616
1967 x 90 = 177030	1636 x 23 = 37628	2009 x 72 = 144648	2330 x 98 = 228340
1363 x 43 = 58609	1886 x 21 = 39606	1591 x 51 = 81141	1410 x 88 = 124080

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422 x 267 = 112674	693 x 437 = 302841	846 x 413 = 349398	826 x 114 = 94164
930 x 421 = 391530	214 x 481 = 102934	132 x 355 = 46860	402 x 434 = 174468
734 x 189 = 138726	207 x 321 = 66447	271 x 573 = 155283	937 x 972 = 910764

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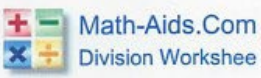
$9\overline{)972}$ = 108	$9\overline{)913}$ = 101 r 4	$4\overline{)534}$ = 133 r 2	$6\overline{)892}$ = 148 r 4
$3\overline{)561}$ = 187	$9\overline{)925}$ = 102 r 7	$3\overline{)807}$ = 269	$5\overline{)857}$ = 171 r 2
$8\overline{)923}$ = 115 r 3	$7\overline{)780}$ = 111 r 3	$8\overline{)840}$ = 105	$4\overline{)796}$ = 199
$7\overline{)894}$ = 127 r 5	$5\overline{)570}$ = 114	$6\overline{)897}$ = 149 r 3	$2\overline{)854}$ = 427
$7\overline{)736}$ = 105 r 1	$6\overline{)960}$ = 160	$5\overline{)615}$ = 123	$2\overline{)486}$ = 243



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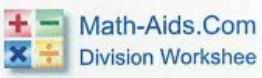
$2\overline{)745}$ = 372 r 1	$3\overline{)732}$ = 244	$9\overline{)963}$ = 107	$6\overline{)751}$ = 125 r 1
$4\overline{)620}$ = 155	$4\overline{)413}$ = 103 r 1	$4\overline{)656}$ = 164	$5\overline{)760}$ = 152
$9\overline{)943}$ = 104 r 7	$2\overline{)354}$ = 177	$7\overline{)727}$ = 103 r 6	$7\overline{)960}$ = 137 r 1
$3\overline{)568}$ = 189 r 1	$5\overline{)905}$ = 181	$8\overline{)888}$ = 111	$3\overline{)989}$ = 329 r 2
$8\overline{)810}$ = 101 r 2	$8\overline{)816}$ = 102	$6\overline{)680}$ = 113 r 2	$7\overline{)721}$ = 103



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$8\overline{)4528}$ = 566	$6\overline{)1116}$ = 186	$3\overline{)2096}$ = 698 r 2	$3\overline{)1903}$ = 634 r 1
$9\overline{)3006}$ = 334	$7\overline{)1890}$ = 270	$7\overline{)2856}$ = 408	$9\overline{)1269}$ = 141
$6\overline{)5468}$ = 911 r 2	$2\overline{)1225}$ = 612 r 1	$9\overline{)6651}$ = 739	$5\overline{)2238}$ = 447 r 3
$8\overline{)2439}$ = 304 r 7	$5\overline{)2765}$ = 553	$2\overline{)1837}$ = 918 r 1	$8\overline{)7699}$ = 962 r 3
$4\overline{)708}$ = 177	$4\overline{)1023}$ = 255 r 3	$3\overline{)2442}$ = 814	$5\overline{)1818}$ = 363 r 3

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$3\overline{)2326}$ = 775 r 1	$5\overline{)1230}$ = 246	$6\overline{)5775}$ = 962 r 3	$6\overline{)4452}$ = 742
$3\overline{)1370}$ = 456 r 2	$7\overline{)1064}$ = 152	$9\overline{)4015}$ = 446 r 1	$9\overline{)3906}$ = 434
$7\overline{)815}$ = 116 r 3	$9\overline{)7668}$ = 852	$2\overline{)1511}$ = 755 r 1	$5\overline{)2390}$ = 478
$8\overline{)6648}$ = 831	$4\overline{)2752}$ = 688	$2\overline{)1299}$ = 649 r 1	$8\overline{)6272}$ = 784
$6\overline{)2991}$ = 498 r 3	$2\overline{)1148}$ = 574	$8\overline{)2507}$ = 313 r 3	$4\overline{)1859}$ = 464 r 3

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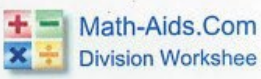
$9\overline{)1088}$ = 120 r 8	$5\overline{)4015}$ = 803	$3\overline{)1985}$ = 661 r 2	$3\overline{)906}$ = 302
$2\overline{)334}$ = 167	$7\overline{)2632}$ = 376	$7\overline{)6122}$ = 874 r 4	$9\overline{)8658}$ = 962
$8\overline{)5953}$ = 744 r 1	$7\overline{)5750}$ = 821 r 3	$5\overline{)1620}$ = 324	$6\overline{)1638}$ = 273
$6\overline{)2394}$ = 399	$9\overline{)6489}$ = 721	$6\overline{)3110}$ = 518 r 2	$4\overline{)3708}$ = 927
$4\overline{)589}$ = 147 r 1	$2\overline{)1955}$ = 977 r 1	$4\overline{)843}$ = 210 r 3	$8\overline{)5498}$ = 687 r 2



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Rounding Integer Numbers by Comparison

Round to the nearest hundred above and below, and circle the rounded number that is closest to the given number.

1)	100	137	200		6)	800	871	900
2)	500	552	600		7)	100	178	200
3)	400	422	500		8)	900	926	1,000
4)	700	771	800		9)	100	122	200
5)	300	325	400		10)	200	226	300

Round to the nearest hundred above and below, and circle the rounded number that is closest to the given number.

1)	8,400	8,486	8,500		6)	9,100	9,177	9,200
2)	9,700	9,753	9,800		7)	4,900	4,915	5,000
3)	7,200	7,289	7,300		8)	2,900	2,959	3,000
4)	6,900	6,997	7,000		9)	8,100	8,164	8,200
5)	9,500	9,552	9,600		10)	7,500	7,564	7,600

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Rounding Integer Numbers by Comparison

Round to the nearest thousand above and below, and circle the rounded number that is closest to the given number.

1)	2,000	2,995	3,000	6)	8,000	8,454	9,000
2)	5,000	5,532	6,000	7)	8,000	8,921	9,000
3)	6,000	6,994	7,000	8)	5,000	5,499	6,000
4)	8,000	8,652	9,000	9)	3,000	3,263	4,000
5)	4,000	4,399	5,000	10)	4,000	4,597	5,000

Round to the nearest thousand above and below, and circle the rounded number that is closest to the given number.

1)	74,000	74,844	75,000	6)	17,000	17,483	18,000
2)	55,000	55,437	56,000	7)	64,000	64,375	65,000
3)	73,000	73,998	74,000	8)	18,000	18,737	19,000
4)	78,000	78,692	79,000	9)	78,000	78,838	79,000
5)	21,000	21,198	22,000	10)	78,000	78,886	79,000

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Rounding Integer Numbers

Round each number to the nearest hundred.

1)	872	900	6)	124	100
2)	198	200	7)	539	500
3)	431	400	8)	821	800
4)	383	400	9)	545	500
5)	454	500	10)	844	800

Round each number to the nearest hundred.

1)	7,823	7,800	6)	1,198	1,200
2)	5,457	5,500	7)	9,631	9,600
3)	3,679	3,700	8)	6,265	6,300
4)	5,415	5,400	9)	7,394	7,400
5)	4,515	4,500	10)	8,946	8,900

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Rounding Money

Round each number to the nearest ten

1) £	236.95	£ 240.00	6) £	461.73	£ 460.00
2) £	335.49	£ 340.00	7) £	571.42	£ 570.00
3) £	479.31	£ 480.00	8) £	257.16	£ 260.00
4) £	134.22	£ 130.00	9) £	356.26	£ 360.00
5) £	924.21	£ 920.00	10) £	989.86	£ 990.00

Round each number to the nearest ten

1) £	9,614.62	£ 9,610.00	6) £	7,892.91	£ 7,890.00
2) £	4,773.46	£ 4,770.00	7) £	1,956.34	£ 1,960.00
3) £	4,678.52	£ 4,680.00	8) £	5,932.14	£ 5,930.00
4) £	4,885.41	£ 4,890.00	9) £	4,019.83	£ 4,020.00
5) £	8,962.39	£ 8,960.00	10) £	7,953.78	£ 7,950.00

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Rounding Decimal Numbers

Round each number to the nearest hundredth.

1)	4.735	4.74	6)	9.116	9.12
2)	6.552	6.55	7)	2.763	2.76
3)	1.831	1.83	8)	4.689	4.69
4)	7.935	7.94	9)	7.851	7.85
5)	5.289	5.29	10)	2.412	2.41

Round each number to the nearest hundredth.

1)	7.8784	7.88	6)	8.6289	8.63
2)	2.3948	2.39	7)	3.4289	3.43
3)	8.3356	8.34	8)	3.3447	3.34
4)	2.6961	2.70	9)	8.4995	8.50
5)	7.4433	7.44	10)	8.8748	8.87

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Order of Operations

1) (13 + 13 - 2) ÷ 6
(26 - 2) ÷ 6
24 ÷ 6
4

2) (16 - 4) + 16 ÷ 2
12 + 16 ÷ 2
12 + 8
20

3) (11 + 37) ÷ (21 - 5)
48 ÷ 16
3

4) 7 x 5 x (10 - 6)
7 x 5 x 4
35 x 4
140

5) (11 - 7) x 10 - 6
4 x 10 - 6
40 - 6
34

6) (12 + 4) x 8 - 3
16 x 8 - 3
128 - 3
125

7) (13 + 28 - 5) ÷ 9
(41 - 5) ÷ 9
36 ÷ 9
4

8) 7 x 4 x (10 + 6)
7 x 4 x 16
28 x 16
448

9) (15 + 15) ÷ (6 - 3)
30 ÷ 3
10

10) (15 - 2) + 14 ÷ 7
13 + 14 ÷ 7
13 + 2
15

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Order of Operations

1) $(5 \times 8 + 5^2) - 3$
$(5 \times 8 + 25) - 3$
$(40 + 25) - 3$
$65 - 3$
62

2) $(50 - 2) \div 4 + 2^2$
$48 \div 4 + 2^2$
$48 \div 4 + 4$
$12 + 4$
16

3) $(11 - 4)^2 + (12 \div 6)$
$7^2 + 2$
$49 + 2$
51

4) $(30 - 6) \div 3 + 3^2$
$24 \div 3 + 3^2$
$24 \div 3 + 9$
$8 + 9$
17

5) $(86 - 6^2) \div (15 - 5)$
$(86 - 36) \div (15 - 5)$
$50 \div 10$
5

6) $(9 - 3)^2 + (20 \div 2)$
$6^2 + 10$
$36 + 10$
46

7) $(75 - 5^2) \div (13 - 3)$
$(75 - 25) \div (13 - 3)$
$50 \div 10$
5

8) $7 \times (9 - 2) + 6^2$
$7 \times 7 + 6^2$
$7 \times 7 + 36$
$49 + 36$
85

9) $(2 \times 8 + 4^2) + 5$
$(2 \times 8 + 16) + 5$
$(16 + 16) + 5$
$32 + 5$
37

10) $2 \times (8 - 2) + 7^2$
$2 \times 6 + 7^2$
$2 \times 6 + 49$
$12 + 49$
61

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Order of Operations

1) $(13 + 2) \times (14 + 3) - 8^2$

$(13 + 2) \times (14 + 3) - 64$

$15 \times 17 - 64$

$255 - 64$

191

2) $9 \times (6 \times 9 + 4^2) + 3$

$9 \times (6 \times 9 + 16) + 3$

$9 \times (54 + 16) + 3$

$9 \times 70 + 3$

$630 + 3$

633

3) $(5 + 5)^2 + (14 - 20 \div 10)$

$(10)^2 + (14 - 2)$

$100 + 12$

112

4) $7 \times (2 \times 4 + 8^2) + 7$

$7 \times (2 \times 4 + 64) + 7$

$7 \times (8 + 64) + 7$

$7 \times 72 + 7$

$504 + 7$

511

5) $(12 + 26 - 6) \div 16 - 3^2$

$(12 + 26 - 6) \div 16 - 9$

$(38 - 6) \div 16 - 9$

$32 \div 16 - 9$

$2 - 9$

-7

6) $(10 + 4) \times (9 + 5) + 2^2$

$(10 + 4) \times (9 + 5) + 4$

$14 \times 14 + 4$

$196 + 4$

200

7) $(10 - 4)^2 + (14 + 18 \div 6)$

$(6)^2 + (14 + 3)$

$36 + 17$

53

8) $(8 + 77 - 5^2) \div (10 - 4)$

$(8 + 77 - 25) \div (10 - 4)$

$(85 - 25) \div 6$

$60 \div 6$

10

9) $(14 + 48 - 2) \div 30 + 4^2$

$(14 + 48 - 2) \div 30 + 16$

$(62 - 2) \div 30 + 16$

$60 \div 30 + 16$

$2 + 16$

18

10) $(11 + 53 - 2^2) \div (7 - 5)$

$(11 + 53 - 4) \div (7 - 5)$

$(64 - 4) \div 2$

$60 \div 2$

30

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Order of Operations

1) $(16 - 4) \times (8 + 6) + 5^2$
$(16 - 4) \times (8 + 6) + 25$
$12 \times 14 + 25$
$168 + 25$
193

2) $(14 - 2)^2 + (15 - 16 \div 2)$
$(12)^2 + (15 - 8)$
$144 + 7$
151

3) $(14 + 16 - 6) \div 3 - 3^2$
$(14 + 16 - 6) \div 3 - 9$
$(30 - 6) \div 3 - 9$
$24 \div 3 - 9$
$8 - 9$
-1

4) $2 \times (3 \times 8 + 8^2) + 10$
$2 \times (3 \times 8 + 64) + 10$
$2 \times (24 + 64) + 10$
$2 \times 88 + 10$
$176 + 10$
186

5) $(2 + 3)^2 + (14 - 16 \div 4)$
$(5)^2 + (14 - 4)$
$25 + 10$
35

6) $4 \times (4 \times 8 - 9^2) - 6$
$4 \times (4 \times 8 - 81) - 6$
$4 \times (32 - 81) - 6$
$4 \times -49 - 6$
$-196 - 6$
-202

7) $(12 + 72 - 6^2) \div (11 - 7)$
$(12 + 72 - 36) \div (11 - 7)$
$(84 - 36) \div 4$
$48 \div 4$
12

8) $(13 + 5) \times (11 - 2) - 6^2$
$(13 + 5) \times (11 - 2) - 36$
$18 \times 9 - 36$
$162 - 36$
126

9) $(8 + 45 - 5) \div 3 - 7^2$
$(8 + 45 - 5) \div 3 - 49$
$(53 - 5) \div 3 - 49$
$48 \div 3 - 49$
$16 - 49$
-33

10) $(15 + 19 - 2^2) \div (9 - 4)$
$(15 + 19 - 4) \div (9 - 4)$
$(34 - 4) \div 5$
$30 \div 5$
6

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END OF LESSON

Verbal Reasoning:

14. Day, School

15. Television, Like

16. Vegetables, Like

17. Play, The

18. Go, Can

19. Books, Read

66. fruit vegetable
67. man lady
68. house wall

32. MAT SEAT
33. BAG SANG
34. ROW CLAY
35. LIP SCARF

59. behave
60. football
61. knowledge

Non-Verbal Reasoning

Rotation

Rotation — p.12-13

Warm Up

1. a) C b) C c) A d) A e) C f) A g) C

2. a) 45 b) 90 c) 45 d) 180 e) 90 f) 180 g) 45

3. Number rotated 90 degrees: 4
Number rotated 180 degrees: 2

Rotate the Figure

4. **A**
The figure is rotated 180 degrees. Option B is a rotated reflection. In options C and D, the hearts have been rotated incorrectly.

5. **C**
The figure is rotated 270 degrees clockwise (or 90 degrees anticlockwise). Option A is a reflection. In option B, the star is positioned incorrectly. In option D, the star and the cut-out section have the wrong number of points.

Complete the Series

8. **B**
The figure rotates 45 degrees clockwise in each series square. The circle's shading alternates between black and white.

Reflection — p.14-15

Warm Up

1. a) yes b) yes c) no d) yes e) no f) no

2. a) reflected b) rotated c) reflected
d) reflected e) rotated

3. Number of reflections: 2
(To work this out, rotate each figure so the black dot is at the top. Then see whether it is a mirror image of the figure in the square.)

Reflect the Figure

4. **A**
Option B is a downwards reflection. Option C has the wrong shading and option D is a different shape.

5. **B**
In option A, the figure has not been reflected and the star has the wrong number of points. Option C is a 90 degree anticlockwise rotation. Option D is a downwards reflection.

Find the Figure Like the First Two

8. **D**
In all figures, the two small shapes must be reflections of each other.

Layering — p.16-17

Warm Up

1. a) rectangle b) circle c) hexagon
d) cross e) triangle f) star

2. a) white b) black c) white
d) grey e) white f) grey

3. a) 3 b) 4 c) 5 d) 4 e) 6 f) 5 g) 3

Odd One Out

4. **C**
In all other figures, the white shape is at the front.

5. **B**
In all other figures, the white shape which is created by the overlap of the two grey shapes has four sides.

Complete the Pair

8. **D**
The lines crossing the large shapes move to the back.