BROAD HORIZON
TUITION

11+ Tuition

Year 3

Week 20

Answers

Name: _____

Date: _____

MENTAL ARITHMETIC : YEAR 3 : SPRING TERM : WEEK 6

Paper 11	Answer
1. Make the smallest whole number you can with these digits: 8, 4, 5	***458***
2. Make the smallest whole number you can with these digits: 7, 6, 1	***167***
3. Would a door in a house be about 1m, 2m or 10m high?	***2m***
4. A teaspoon holds 5ml of medicine. How many teaspoons are needed for 15 ml of medicine?	***3***
5. How many grams in half a kilogram?	***500***
6. A TV programme started at 4.50 and finished at 5.20. How long did it last?	***30 mins*** ***(or half an hour)***
7. A film started at 3.00. It lasted one and three quarter hours. What time did it finish?	***4.45*** ***(or quarter to five)***
8. A piece of string, 70 cm long, was cut into two equal pieces. How long was each piece?	***35 cm***
9. How many sides has a hexagon?	***6***
10. Find a quarter of 20.	***5***

Paper 12	Answer
1. Make the smallest whole number you can with these digits: 9, 1, 1	***119***
2. Make the smallest whole number you can with these digits: 7, 5, 1	***157***
3. Would a door in a house be about 1m, 2m or 10m wide?	***1m***
4. A teaspoon holds 5ml of medicine. How many teaspoons are needed for 20 ml of medicine?	***4***
5. How many millilitres in a litre?	***1 000***
6. A TV programme started at 3.40 and finished at 4.10. How long did it last?	***30 mins*** ***(or half an hour)***
7. A film started at 4.00. It lasted two a quarter hours. What time did it finish?	***6.15*** ***(or quarter past six)***
8. A piece of string, 90 cm long, was cut into two equal pieces. How long was each piece?	***45 cm***
9. How many sides has an octagon?	***8***
10. Find a quarter of 16.	***4***

Pages 65-69 — Assessment Test 8

1) **C** — In the passage it says that "everyone who lived in a country which was part of the Roman Empire had to obey Roman laws".
2) **D** — The text does not mention markets.
3) **C** — In the passage it says that the Romans built roads to transport goods "quickly and directly".
4) **C** — The Roman Empire included parts of northern Africa but not South Africa.
5) **D** — "talented" is closest in meaning to 'skilful'.
6) **A** — "at its peak" means 'when it was most powerful'.
7) **B** — 'it can seem ***difficult*** to learn new skills.'
8) **A** — 'there are lots of ***options*** for grown-ups who want to learn.'
9) **A** — 'Evening classes are available in many towns and ***cities***'.
10) **B** — 'and ***cover*** a range of subjects'.
11) **C** — 'Many older people find that learning a new skill helps to keep them ***active***'.
12) **B** — 'for others it can even open up new job ***opportunities***.'
13) **C** — '***In addition***, going to an evening class can be a great way to meet new friends.'
14) **A** — 'So ***whether*** people want to learn to draw'.
15) **B** — 'or even ***write*** a bestselling book'.
16) **A** — 'there's bound to be an evening class that ***can*** help them on their way!'
17) **mighty** — 'Strong' and 'mighty' both mean 'powerful'.
18) **bold** — 'Brave' and 'bold' both mean 'courageous'.
19) **needy** — 'Poor' and 'needy' both mean 'lacking money'.
20) **expand** — 'Stretch' and 'expand' both mean 'increase in length'.
21) **scrawl** — 'Scribble' and 'scrawl' both mean 'make untidy marks on paper'.
22) **shear** — 'Shave' and 'shear' both mean 'remove hair close to the skin'.
23) **total** — 'Complete' and 'total' both mean 'entire'.
24) **slant** — 'Angle' and 'slant' both mean 'not straight'.
25) **squash** — 'Squeeze' and 'squash' both mean 'compress into a smaller area'.
26) ac**tive** — 'Lazy' means 'unwilling to move', whereas 'active' means 'moving a lot'.
27) **better** — 'Worse' describes something that has deteriorated, whereas 'better' describes something that has improved.
28) **tame** — 'Wild' means 'not domesticated', whereas 'tame' means 'domesticated'.
29) **for**ward — 'Back' means 'towards the rear', whereas 'forward' means 'towards the front'.
30) **stupi**d — 'Clever' means 'intelligent', whereas 'stupid' means 'not intelligent'.
31) **serious** — 'Funny' means 'humorous', whereas 'serious' means 'not humorous'.
32) **rise** — 'Fall' means 'go down', whereas 'rise' means 'go up'.
33) **d**esc**e**nd — 'Climb' means 'go up', whereas 'descend' means 'go down'.
34) **B** — In the passage it says that Harriet and Jade left Harriet's house at 9 o'clock, that it took them fifteen minutes to walk to school, and that they had to be at school by half past nine. This means that they arrived at 9:15, so they weren't late.
35) **B** — In the passage it says that the tombola raised £130, the raffle raised £10 less than the tombola and the cake stall raised £60. £130 + £120 + £60 = £310, so the fair raised more than £300.

21 Compound words p28

1 airport / weekend / shoelace / goalkeeper / bedroom / windmill / dustbin / greenhouse / firework

2 Possible answers include:

a rainbow / raindrop / rainforest
b farmhouse / farmhand / farmyard
c postman / postcode / postbox
d snowman / snowball / snowflake
e waterfall / watercolour / watercress

3 **a** breakfast **b** cupboard **c** craftsmanship
d upstairs **e** grandmother / afternoon

Section 3 — Reflect the Figure

1) B

Option A is a downwards reflection and has the wrong shading. Option C is a 90 degree anticlockwise rotation. Option D is the wrong shape.

2) A

Option B has the wrong shading and has not been reflected. Option C is a 90 degree anticlockwise rotation. In option D, the black shape has not been reflected.

3) C

Option A has the wrong shading. In option B, the grey part of the umbrella is in the wrong place and the handle is the wrong shape. In option D, the handle has not been reflected.

4) C

Option A has the wrong shading and is the wrong shape. Option B is the wrong shape. Option D has been rotated 180 degrees.

Section 4 — Complete the Grid

1) C

Working from left to right, the two figures (the star and the diamond) alternate in each grid square.

2) A

Working from left to right, the figure moves from the top left-hand corner to the bottom right-hand corner of the grid square.

3) C

Working from left to right, the figure reflects across.

4) C

Working from left to right, the black and grey parts of the figure swap shadings.

Times Table Practice

Times Tables Worksheet Answers

up to 12 x 12

Created by the Math Salamanders www.math-salamanders.com

1) 6 x **5** = 30	2) **4** x 8 = 32	3) 12 x 11 = **132**
4) 5 x **8** = 40	5) 7 x 11 = **77**	6) 6 x 9 = **54**
7) 4 x **2** = 8	8) **2** x 9 = 18	9) **6** x 8 = 48
10) **10** x 6 = 60	11) 9 x 11 = **99**	12) 9 x 11 = **99**
13) **6** x 5 = 30	14) 4 x **4** = 16	15) 11 x 1 = **11**
16) **11** x 6 = 66	17) **7** x 12 = 84	18) **10** x 8 = 80
19) 9 x **6** = 54	20) **3** x 6 = 18	21) **8** x 9 = 72
22) 12 x **7** = 84	23) **11** x 10 = 110	24) **3** x 6 = 18
25) **11** x 5 = 55	26) 5 x **11** = 55	27) 2 x **7** = 14
28) **7** x 12 = 84	29) **2** x 6 = 12	30) 2 x 1 = **2**
31) 9 x **6** = 54	32) **2** x 8 = 16	33) **10** x 6 = 60
34) 8 x **7** = 56	35) **4** x 10 = 40	36) **7** x 5 = 35
37) 11 x 3 = **33**	38) 4 x **9** = 36	39) 9 x **5** = 45
40) **10** x 2 = 20	41) **5** x 7 = 35	42) 5 x 4 = **20**
43) 12 x 3 = **36**	44) **3** x 2 = 6	45) 12 x 9 = **108**

You will have 150 seconds to complete the table below from memory.

Times Tables Worksheet Answers

up to 12 x 12

Created by the Math Salamanders www.math-salamanders.com

1) **7** x 11 = 77	2) **5** x 8 = 40	3) **10** x 1 = 10
4) **9** x 5 = 45	5) 2 x 9 = **18**	6) 12 x **2** = 24
7) **10** x 5 = 50	8) **4** x 2 = 8	9) 3 x **4** = 12
10) **3** x 1 = 3	11) 8 x **8** = 64	12) 3 x **5** = 15
13) 7 x **3** = 21	14) 11 x **7** = 77	15) 8 x **9** = 72
16) **5** x 7 = 35	17) **9** x 6 = 54	18) 12 x **9** = 108
19) 8 x **5** = 40	20) 10 x **4** = 40	21) 4 x **11** = 44
22) **3** x 9 = 27	23) 8 x **4** = 32	24) **7** x 4 = 28
25) **9** x 7 = 63	26) **3** x 4 = 12	27) 8 x **8** = 64
28) **7** x 1 = 7	29) 11 x 5 = **55**	30) **3** x 4 = 12
31) 5 x **0** = 0	32) **3** x 8 = 24	33) 3 x **3** = 9
34) **9** x 1 = 9	35) 9 x **7** = 63	36) 4 x 12 = **48**
37) **9** x 2 = 18	38) 8 x 1 = **8**	39) 7 x **7** = 49
40) 11 x 4 = **44**	41) 7 x 3 = **21**	42) 9 x **12** = 108
43) 8 x **12** = 96	44) 6 x **5** = 30	45) 2 x 6 = **12**

you

Times Tables Worksheet Answers

up to 12 x 12

Created by the Math Salamanders www.math-salamanders.com

1) 11 x **3** = 33
2) 5 x **9** = 45
3) **9** x 8 = 72
4) 5 x 1 = **5**
5) 2 x 7 = **14**
6) 9 x **10** = 90
7) 11 x **1** = 11
8) 10 x **2** = 20
9) 11 x **12** = 132
10) 5 x **10** = 50
11) **11** x 1 = 11
12) 12 x **6** = 72
13) 7 x **3** = 21
14) 10 x 2 = **20**
15) 12 x **12** = 144
16) 5 x **9** = 45
17) 12 x **4** = 48
18) 6 x **1** = 6
19) 6 x **9** = 54
20) 11 x **7** = 77
21) **6** x 10 = 60
22) **11** x 5 = 55
23) 3 x 4 = **12**
24) **4** x 10 = 40
25) 6 x **4** = 24
26) 4 x **7** = 28
27) **8** x 7 = 56
28) **12** x 11 = 132
29) **8** x 3 = 24
30) 3 x 4 = **12**
31) 8 x 4 = **32**
32) 4 x **1** = 4
33) 2 x 12 = **24**
34) 10 x 12 = **120**
35) 11 x **9** = 99
36) 11 x **6** = 66
37) 3 x **8** = 24
38) **2** x 12 = 24
39) **9** x 8 = 72
40) **12** x 7 = 84
41) 11 x **5** = 55
42) 3 x **5** = 15
43) **9** x 2 = 18
44) **7** x 3 = 21
45) **12** x 4 = 48

If you've achieved below 40/45 you should revisit all your times tables and learn them again