10.1 Arithmetic (Paper 1 practice): 2-hour Pack

Calculators not allowed · about 120 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 777 + 600 + 260 =

Answer: ___

(1)

2 4 squared =

(1)

3 9.32 + 3.81 =

Answer: ___

(1)

4 34202 divided by 49 =

Answer: ___

(2)

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5 5544 divided by 9 =

Answer: ___

(1)

---

6 71 x 7 =

Answer: ___

(1)

---

7 783 x 5 =

Answer: ___

(1)

---

8 10.94 + 7.61 =

Answer: ___

(1)

---

9 34 x 1000 =

(1)

---

10 1000 - 60 =

(1)

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11 20% of 150 =

(1)

12 8 x 9 =

(1)

13 4.5 + 3.75 =

(1)

14 936 divided by 6 =

(1)

15 1 1/2 + 2 3/4 =

(1)

16 15 x 12 =

(1)

17 3.6 x 4 =

(1)

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18 7000 - 2350 =

(1)

19 Write 5/8 as a decimal.

(1)

20 (6 + 4) x 5 =

(1)

21 4 1/5 - 1 3/5 =

(1)

22 342 x 27 =

(2)

23 4914 divided by 18 =

(2)

24 7052 divided by 41 =

(2)

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25 3/8 x 40 =

(1)

---

26 62.1 divided by 3 =

Answer: ___

(1)

---

27 954 + 553 =

Answer: ___

(1)

---

28 5 1/3 + 5 2/3 =

Answer: ___

(2)

---

29 60 divided by 4 =

(1)

---

30 4 1/5 + 5 7/10 =

Answer: ___

(1)

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31 1/5 + 4/5 =

Answer: ___

(2)

---

32 5 x (10 - 1) + 7 squared =

Answer: ___

(2)

---

33 296 x 24 =

Answer: ___

(2)

---

34 3 2/4 + 1 1/2 =

Answer: ___

(2)

---

35 2110 x 83 =

Answer: ___

(2)

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36 9504 divided by 24 =

Answer: ___

(2)

---

37 3.4 + 2.7 =

(1)

---

38 3/4 divided by 3 =

Answer: ___

(2)

---

39 12% of 1120 =

Answer: ___

(1)

---

40 7/8 x 3/6 =

Answer: ___

(1)

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41 455 x 52 =

Answer: ___

(2)

---

42 776 x 35 =

Answer: ___

(2)

---

43 12 squared =

Answer: ___

(1)

---

44 180 divided by 6 =

Answer: ___

(1)

---

45 721 + 471 + 525 =

Answer: ___

(1)

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46 25 x 6 =

(1)

---

47 5112 divided by 6 =

Answer: ___

(1)

---

48 65723 - 49831 =

Answer: ___

(1)

---

49 2.7 x 0.8 =

Answer: ___

(1)

---

50 7 x (2 - 1) + 9 squared =

Answer: ___

(2)

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51 2 cubed =

Answer: ___

(1)

---

52 9737 + 8732 =

Answer: ___

(1)

---

53 501 + 791 + 459 =

Answer: ___

(1)

---

54 9.3 x 0.2 =

Answer: ___

(1)

---

55 3/5 + 5/6 =

Answer: ___

(2)

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56 (2 + 7) x 4 - 19 =

Answer: ___

(2)

---

57 (5 + 5) x 5 - 12 =

Answer: ___

(1)

---

58 7256 x 12 =

Answer: ___

(2)

---

59 2/6 divided by 4 =

Answer: ___

(1)

---

60 50% of 56 =

Answer: ___

(1)

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61 544 divided by 8 =

Answer: ___

(1)

---

62 6.1 x 4 =

Answer: ___

(1)

---

63 12 + 7 x 3 =

(1)

---

64 15841 divided by 31 =

Answer: ___

(2)

---

65 342.4 divided by 4 =

Answer: ___

(1)

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66 86587 + 95251 =

Answer: ___

(1)

---

67 7204 - 4431 =

Answer: ___

(1)

---

68 86821 - 62156 =

Answer: ___

(1)

---

69 35076 + 96649 =

Answer: ___

(1)

---

70 118.5 divided by 3 =

Answer: ___

(1)

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71 36030 + 868 =

Answer: ___

(1)

---

72 5 - 2.5 =

(1)

---

73 30% of 176 =

Answer: ___

(1)

---

74 591 + 465 + 462 =

Answer: ___

(1)

---

75 637 + 866 + 667 =

Answer: ___

(1)

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Mark scheme · 10.1 Arithmetic (Paper 1 practice): 2-hour Pack

A correct answer earns full marks unless the question asks for working, a method, proof or explanation.

Question 1

1637 cao — **B1**

Answer: **1637**

Question 2

16 — **B1**

Answer: **16**

[5C4]

[5C4]

Question 3

13.13 cao — **B1**

Answer: **13.13**

Question 4

uses a formal method of division with not more than one arithmetic error — **M1**

698 cao — **A1**

Answer: **698**

Question 5

616 cao — **B1**

Answer: **616**

Question 6

497 cao — **B1**

Answer: **497**

Question 7

3915 cao — **B1**

Answer: **3915**

Question 8

18.55 cao — **B1**

Answer: **18.55**

Question 9

34000 — **B1**

Answer: **34000**

[5C6]

[5C6]

Question 10

940 — **B1**

Answer: **940**

[4C2]

[4C2]

Question 11

30 — **B1**

Answer: **30**

[6F9]

[6F9]

Question 12

72 — **B1**

Answer: **72**

[3C6]

[3C6]

Question 13

8.25 — **B1**

Answer: **8.25**

[5C5]

[5C5]

Question 14

156 — **B1**

Answer: **156**

[5C7]

[5C7]

Question 15

4 1/4 (oe: 17/4) — **B1**

Answer: **4 1/4**

[6F4]

[6F4]

Question 16

180 — **B1**

Answer: **180**

[5C7]

[5C7]

Question 17

14.4 — **B1**

Answer: **14.4**

[5C7]

[5C7]

Question 18

4650 — **B1**

Answer: **4650**

[4C2]

[4C2]

Question 19

0.625 — **B1**

Answer: **0.625**

[6F10]

[6F10]

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Question 20

50 (brackets first: 10 x 5) **B1**

Answer: **50**

[6C9]

[6C9]

Question 21

2 3/5 (oe: 13/5) **B1**

Answer: **2 3/5**

[6F4]

[6F4]

Question 22

9234 **B2**

formal method of long multiplication with not more than one arithmetic error (STA rubric) **B1**

Answer: **9234**

[6C7]

[6C7]

Question 23

273 **B2**

formal method of division with not more than one arithmetic error (STA rubric) **B1**

Answer: **273**

[6C8]

[6C8]

Question 24

172 **B2**

formal method of division with not more than one arithmetic error (STA rubric) **B1**

Answer: **172**

[6C8]

[6C8]

Question 25

15 **B1**

Answer: **15**

[6F5]

[6F5]

Question 26

20.7 cao **B1**

Answer: **20.7**

Question 27

1507 cao **B1**

Answer: **1507**

Question 28

method seen **M1**

11 cao **A1**

Answer: **11**

Question 29

15 **B1**

Answer: **15**

[4C6]

[4C6]

Question 30

9 9/10 or 99/10 cao **B1**

Answer: **9 9/10**

Question 31

method seen **M1**

1 cao **A1**

Answer: **1**

Question 32

method seen **M1**

94 cao **A1**

Answer: **94**

Question 33

uses a formal written method with not more than one arithmetic error **M1**

7104 cao **A1**

Answer: **7104**

Question 34

method seen **M1**

5 cao **A1**

Answer: **5**

Question 35

uses a formal written method with not more than one arithmetic error **M1**

175130 cao **A1**

Answer: **175130**

Question 36

uses a formal method of division with not more than one arithmetic error **M1**

396 cao **A1**

Answer: **396**

Question 37

6.1 **B1**

Answer: **6.1**

[5C5]

[5C5]

Question 38

method seen **M1**

1/4 cao **A1**

Answer: **1/4**

Question 39

134.4 cao **B1**

Answer: **134.4**

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Question 40

7/16 cao — B1

Answer: **7/16**

Question 41

uses a formal written method with not more than one arithmetic error — M1

23660 cao — A1

Answer: **23660**

Question 42

uses a formal written method with not more than one arithmetic error — M1

27160 cao — A1

Answer: **27160**

Question 43

144 cao — B1

Answer: **144**

Question 44

30 cao — B1

Answer: **30**

Question 45

1717 cao — B1

Answer: **1717**

Question 46

150 — B1

Answer: **150**

[4C7]

[4C7]

Question 47

852 cao — B1

Answer: **852**

Question 48

15892 cao — B1

Answer: **15892**

Question 49

2.16 cao — B1

Answer: **2.16**

Question 50

method seen — M1

88 cao — A1

Answer: **88**

Question 51

8 cao — B1

Answer: **8**

Question 52

18469 cao — B1

Answer: **18469**

Question 53

1751 cao — B1

Answer: **1751**

Question 54

1.86 cao — B1

Answer: **1.86**

Question 55

method seen — M1

1 13/30 or 43/30 cao — A1

Answer: **1 13/30**

Question 56

method seen — M1

17 cao — A1

Answer: **17**

Question 57

38 cao — B1

Answer: **38**

Question 58

uses a formal written method with not more than one arithmetic error — M1

87072 cao — A1

Answer: **87072**

Question 59

1/12 cao — B1

Answer: **1/12**

Question 60

28 cao — B1

Answer: **28**

Question 61

68 cao — B1

Answer: **68**

Question 62

24.4 cao — B1

Answer: **24.4**

Question 63

33 (order of operations: 7 x 3 first) — B1

Answer: **33**

[6C9]

[6C9]

Question 64

uses a formal method of division with not more than one arithmetic error — M1

511 cao — A1

Answer: **511**

Question 65

85.6 cao — B1

Answer: **85.6**

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Question 66

181838 cao **B1**

Answer: **181838**

Question 67

2773 cao **B1**

Answer: **2773**

Question 68

24665 cao **B1**

Answer: **24665**

Question 69

131725 cao **B1**

Answer: **131725**

Question 70

39.5 cao **B1**

Answer: **39.5**

Question 71

36898 cao **B1**

Answer: **36898**

Question 72

2.5 **B1**

Answer: **2.5**

[5C5]

[5C5]

Question 73

52.8 cao **B1**

Answer: **52.8**

Question 74

1518 cao **B1**

Answer: **1518**

Question 75

2170 cao **B1**

Answer: **2170**

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