



BROAD HORIZON
— TUITION CENTRE —

11+ Tuition – Year 5

Week 24

ANSWERS

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Starter task – Vocabulary Homework Test

Exercise C

1. perturb
2. stability
3. inventive
4. provoke
5. derive
6. wildfire
7. decisive
8. phenomenon
9. sanctuaries
10. supremacy

Maths Practice Questions

Prime Numbers – Test 6

Percentage – Test 7

Test 6: Prime Numbers

- Q1 A**
 $97 \div 2 = 48.5$
- Q2 D**
 Prime numbers less than 30: 2, 3, 5, 7, 11, 13, 17, 19, 23, 29
- Q3 C**
- Q4 D**
 $51 - 33 = 18$
- Q5 A**
 $179 + 347 = 526$
- Q6 A**
 Prime factors of 30: 2, 3, 5
- Q7 B**
 A prime number's only factors are itself and 1.
- Q8 B**
 $2^2 \times 3^2 = 4 \times 9 = 36$
- Q9 E**
 $2 \times 6, 3 \times 4$
- Q10 C**
 $111 \div 3 = 37$; so 111 is not prime

Test 7: Percentage

- Q1 C**
 $85\% \text{ of cost} = £34$; $5\% \text{ of cost} = £34 \div 17 = £2$
 $100\% \text{ of cost} = £2 \times 20 = £40$
- Q2 A**
 $15\% = 9$; $5\% = 3$; $100\% = 3 \times 20 = 60$
 Number who chose Honey Loops =
 $60 - 12 - 9 - 15 - 11 = 13$
- Q3 E**
 $\text{Cost of dress} = £320 \times 1.17 = £374.40$
 $\text{Cost of ring} = £290 \times 1.18 = £342.20$
 $\text{Difference} = £374.40 - £342.20 = £32.20$
- Q4 E**
 $\text{Non-fiction books} = 20\% \times 220 = 44$
 $\text{Biographies} = \frac{5}{11} \times 44 = 20$
- Q5 A**
 $\text{New length} = 10 \text{ cm} \times 1.2 = 12 \text{ cm}$
 $\text{New width} = 4 \text{ cm} \times 1.2 = 4.8 \text{ cm}$
 $\text{Area} = 12 \text{ cm} \times 4.8 \text{ cm} = 57.6 \text{ cm}^2$
- Q6 C**
 $\frac{3}{10} \times a = b$; $a = b + \frac{3}{10}$
 $a = b \times \frac{10}{3}$; $a = \frac{10b}{3}$
- Q7 A**
 Worked example:
 Let x be £100
 $\text{July price} = £100 \times 0.8 = £80$
 $\text{August price} = £80 \times 1.25 = £100$
- Q8 E**
 $\text{Percentage} = \frac{162^\circ}{360^\circ} \times 100\% = 45\%$
- Q9 D**
 $\text{Number of Italians} = 45\% \times 7,500 = 3,375$
 $\text{Number of French} = (7,500 - 3,375) \div 3 = 1,375$
- Q10 C**
 Worked example: Let Frank's income be 5 so Alfred's income is 10. 5 must double to become 10 so Frank's income must increase by 100%.

Comprehension Practice

Test 10 - The Prisoner of Zenda, pages 71-78

| Question | Answer | Explanation |
|----------|--------|---|
| 1 | B | Reader’s logical inference required. Refer to line 1 to make a decision as to the time of day: ‘I took an early luncheon...’ If the narrator’s lunchtime is considered ‘early’ it can be inferred that he is eating before the afternoon. |
| 2 | C | Refer to lines 3-4: ‘Half an hour’s leisurely walking brought me to the Castle.’ |
| 3 | A | Refer to lines 8-9: ‘The old and the new portions were connected by a drawbridge...’ |
| 4 | A | Refer to line 7: ‘...a handsome modern chateau, erected by the last king...’ |
| 5 | B | Knowledge of vocabulary required. ‘Sombre’ means dark, dull or serious. The word ‘bright’ means light or vivid. Therefore, this is the word with the most opposite meaning. |
| 6 | E | Reader’s personal judgement required. Refer to lines 18-19 to form an opinion as to why the narrator compares the sunlight to diamonds specifically. He notes that ‘the sunshine stole through in patches as bright as diamonds, and hardly bigger.’ He refers to the brightness of the two things that he is comparing, so E is the best option. |
| 7 | B | Refer to lines 26-27: ‘...I fell to dreaming that I was married to the Princess Flavia and dwelt in the Castle of Zenda...’ |
| 8 | A | Knowledge of vocabulary required. ‘Fanciful’ means unrealistic and imaginative, and ‘whimsical’ means unrealistic in an amusing way. Therefore, the best option is A: fanciful. |
| 9 | E | Reader’s logical inference required. Refer to lines 40-42 to make a decision as to what the two men have in common. The narrator notes that he ‘set the one down as an old soldier: the other for a gentleman accustomed to move in good society, but not unused to military life either. It turned out afterwards that [his] guess was a good one.’ The narrator is right in his assumption that two are both in the army. |
| 10 | B | Reader’s logical inference required. Refer to line 53: ‘I bowed and, baring my head, answered...’ As the narrator is bowing to his new acquaintances at the same time as baring his head, the most logical option is that he is taking his hat off in greeting. |
| 11 | D | Reader’s logical inference required. Refer to lines 51-52 to make a decision as to where this passage is set. The two men in the forest described themselves as being ‘in the service of the King of Ruritania’ and as this king appears later in the passage it can be inferred that this is where the story is set. |
| 12 | D | Reader’s logical inference required. Refer to the passage as a whole to help make a decision as to which answer option does not describe the narrator. The narrator describes himself as being ‘six feet two inches’ (lines 45-46) Therefore, the only option which is false is D: that he is short. |
| 13 | C | Reader’s logical inference required. Refer to lines 79-82: ‘Saving the hair on my face and a manner of conscious dignity which his position gave him...the King of Ruritania might have been Rudolf Rassendyll, and I, Rudolf, the King.’ This description implies that the two men are similar in appearance. |
| 14 | A | Reader’s logical inference required. Look at the passage as a whole to make a decision. The passage is written from the point of view of Rudolf Rassendyll, so it can be assumed that he is the main character. |
| 15 | E | Reader’s personal judgement required. The passage is most likely from a fictitious novel, as it talks of fictitious countries, and there is no indication that it is funny or of anything fantastical, which only leaves option E: adventure. |

Verbal Reasoning

Verbal Reasoning Tests

Paper 10

- 1 LEAP
- 2 FARES
- 3 CHEAT
- 4 SCREW
- 5 SWAP
- 6 grumble, moan
- 7 narrate, tell
- 8 subject, matter
- 9 crop, harvest
- 10 assorted, various
- 11 jewel, ring
- 12 leg, back
- 13 court, prison
- 14 planet, star
- 15 stop, discontinue
- 16 appeal
- 17 crush
- 18 vault
- 19 development

- 20 last
- 21 CAR
- 22 WIN
- 23 EAT
- 24 LAY
- 25 FIN
- 26 l
- 27 t
- 28 d
- 29 r
- 30 p
- 31 k
- 32 OVER
- 33 UP
- 34 AFTER
- 35 WIND
- 36 SOME
- 37 UNDER
- 38 because, computer, broken
- 39 write, forget, something
- 40 optician, remind, glasses
- 41 go, restaurant, pizza
- 42 December, skate, shop
- 43 sent
- 44 fit
- 45 set
- 46 team
- 47 bear
- 48 mother
- 49 month
- 50 absent
- 51 single
- 52 fruit
- 53 COLD

- 54 RING
- 55 TANK
- 56 STEAM
- 57 FLOW
- 58 TAKE
- 59 sped, feed
- 60 other, mend
- 61 her, leant
- 62 log, town
- 63 cane, bout
- 64 OT, RW
- 65 QJ, SH
- 66 ER, JI
- 67 NJ, MK
- 68 BY, EV
- 69 YZ, FG
- 70 DS, IN

- 75 David
- 76 £8
- 77 £7
- 78 £9
- 79 £5
- 80 –\$@£
- 81 O\$@£–
- 82 @£\$O
- 83 TREAT
- 84 RULE
- 85 NEAR
- 86 LACE
- 87 There are some pictures in the book.
- 88 I could not speak to my friend.
- 89 Sometimes it’s raining when my dog goes out.
- 90 I prefer other colours to red.
- 91 12
- 92 2
- 93 18
- 94 27
- 95 49
- 96 CZQSV
- 97 qhfp
- 98 RPTQ
- 99 jtl
- 100 WZB

71–72

| | | | | | |
|---|---|---|---|---|---|
| S | T | R | I | K | E |
| P | | E | | E | |
| R | I | S | I | N | G |
| A | | U | | N | |
| Y | E | L | L | E | D |
| S | | T | | L | |

73–74

| | | | | | |
|---|---|---|---|---|---|
| V | A | L | L | E | Y |
| O | | I | | L | |
| L | E | T | T | E | R |
| U | | T | | V | |
| M | E | L | T | E | D |
| E | | E | | N | |

Antonyms

Test 5

Test 17

Test 5 Antonyms

- Q1** *MINUTE*
- Q2** *SUBJECT*
- Q3** *LENDER*
- Q4** *RELINQUISH*
- Q5** *DETERIORATE*
- Q6** *LUCID*
- Q7** *RESIST*
- Q8** *CONVICT*
- Q9** *EFFORTLESS*
- Q10** *APPROVE*

Test 17 Antonyms

- Q1** **D** *conceal*
- Q2** **E** *rare*
- Q3** **A** *putrid*
- Q4** **C** *frugal*
- Q5** **B** *scarcity*
- Q6** **E** *powerful*
- Q7** **D** *minute*

Test 6 Missing Letters

Synonyms**Test 9 Synonyms**

Test 9

Q1 LETHAL

Test 13

Q2 CEASE**Q3 DEFICIENCY****Q4 GRAND****Q5 FREEDOM****Q6 AMOUNT****Q7 REPRIMAND****Q8 SUBDUE****Q9 DWINDLE****Q10 BANAL****Test 13 Synonyms****Q1 D shiver****Q2 D critical****Q3 D row****Q4 A appease****Q5 C unable****Q6 D model****Q7 E diffident**

Missing letters

Test 6

Test 23

Test 40

Test 6 Missing Letters

- Q1** GREGARIOUS
- Q2** PROSPERITY
- Q3** UNOCCUPIED
- Q4** CURSED
- Q5** APPROPRIATE
- Q6** SOILED
- Q7** MYSTIFY
- Q8** REJOICE
- Q9** UNCOMMON
- Q10** AGREEABLE
- Q11** POINTLESS
- Q12** FOREWARN
- Q13** DEGENERATE
- Q14** EMBEZZLE
- Q15** CARELESS

Test 23 Missing Letters

- Q1** ASSEMBLE
- Q2** ORDINARY
- Q3** PLEASANT
- Q4** RAPPORT
- Q5** RECKLESS
- Q6** OMISSION
- Q7** CONSPICUOUS
- Q8** BENEVOLENT
- Q9** EMPHATIC
- Q10** ATTENTIVE
- Q11** DEFEND
- Q12** FRIENDLY
- Q13** CHATTER
- Q14** RUPTURE
- Q15** STRIDE

Test 40 Missing Letters

- Q1** ABODE
- Q2** DISMISS
- Q3** STUBBORN
- Q4** NARROW
- Q5** IMPARTIAL
- Q6** TARDY
- Q7** COURTEOUS
- Q8** WELCOME
- Q9** APPREHENSIVE
- Q10** WITHDRAW
- Q11** DWINDLE
- Q12** PRECARIOUS
- Q13** SANITARY
- Q14** PERCEIVE
- Q15** DEPRIVE

Non-Verbal Reasoning

Test 4

Practice Questions

1 A

2 E

Test

1 C

2 A

3 C

4 E

5 B

6 D

7 A

8 B

9 C

10 E

11 B

12 B

Quick Revision

Workout the volume of the shapes with the following dimensions

| | Length | Width | Height | Volume |
|----|--------|-------|--------|-------------------------|
| 1) | 5cm | 7cm | 0.2cm | 7cm³ |
| 2) | 13mm | 4mm | 0.5mm | 26mm³ |

(2 marks)

Workout the following:

| | | Mode | Range | Average | Median |
|----|---------------|------------|----------|------------|------------|
| 3) | 4, 5, 4, 3 | 3 | 2 | 4 | 4 |
| 4) | 2, 11, 7, 2 | 2 | 9 | 5.5 | 4.5 |
| 5) | 5, 7, 5, 9, 7 | 5,7 | 4 | 6.6 | 7 |

(12 marks)

6) Round 27.995 to two decimal places

28.00

7) Round 38,762 to the nearest thousand

39,000

8) Add 75 minutes to 6:25pm

7:40 pm

9) Add 100 minutes to 11:30pm (give answer in 24 hour clock)

1:10 pm

Homework – Vocabulary to memorise

Vocabulary 4

Exercise A

1. henceforth
2. detest
3. cautious
4. hallmark
5. imply
6. common sense
7. broadcast
8. deduct
9. dweller
10. retail

Exercise B

1. deduct
2. cautious
3. hallmark
4. common sense
5. broadcast
6. dweller
7. imply
8. henceforth
9. detest
10. retail

Exercise C

1. hallmark
2. dweller
3. deduct
4. detest
5. imply
6. common sense
7. henceforth
8. cautious
9. broadcast
10. retail

Anagrams

Test 24

1. s The roses smelt wonderful.
2. b Her beige blouse suits her.
3. k The broken kettle finally got replaced.
4. v I will get the driveway paved soon.
5. o The mirror on the wall is wonky.
6. b The rhubarb crumble went well with custard.
7. i The girl's nails need cutting.
8. n The window cleaner comes every other month.
9. f My father prepared a fantastic buffet.
10. w My nephew works at a gym.

Related Words

Test 24

1 distinctive

Solution: The words in the top row of the grid are antonyms of the words directly below (e.g. 'distinctive' is an antonym of 'commonplace').

2 exercise

Solution: The words in the bottom row of the grid are all verbs in the present tense. The words in the top row are nouns relating to the verbs directly below (e.g. 'exercise' is both a verb and a noun).

3 about

Solution: The words in the top row of the grid can be joined to the words directly below to form new words (e.g. 'round' + 'about' = 'roundabout').

4 pup

Solution: The words in the top row of the grid are animals. Each word in the bottom row is the young of the animal directly above (e.g. a 'pup' is a baby 'otter').

5 cars

Solution: The words in the top row of the grid are all metric weights. The words below are items that would typically have a weight in the unit directly above (e.g. 'cars' typically weigh 'tonnes').

6 liberates

Solution: The words in the bottom row of the grid are homophones. The words in the top row have similar meanings to the words directly below (e.g. 'liberates' and 'frees' are synonyms).

7 wart

Solution: The words in the top row of the grid can all be joined to the words directly below to form new words (e.g. 'wart' + 'hog' = 'warthog').

8 expel

Solution: The words in the top row of the grid are synonyms of the words directly below (e.g. 'expel' and 'remove' are synonyms).

9 mountains

Solution: The words in the top row of the grid are collective nouns related to aspects of the natural world. The aspect of nature to which they relate is in the box directly below (e.g. a 'range' is a group of 'mountains').

10 enthralled

Solution: The words in the top row of the grid are synonyms of each other ('wrapped', 'encased' and 'packaged'). Similarly, the words in the bottom row are synonyms of each other ('rapt', 'enthralled' and 'spellbound').

Rhyming Synonyms

Test 24

1. **A** **outlandish**
perusal → unusual → outlandish
2. **A** **amalgamated**
surged → merged → amalgamated
3. **E** **ecstatic**
historic → euphoric → ecstatic
4. **E** **bankrupt**
woke → broke → bankrupt
5. **B** **indefatigable**
wireless → tireless → indefatigable
6. **E** **cautious**
student → prudent → cautious
7. **D** **ludicrous**
deferred → absurd → ludicrous
8. **D** **subdued**
aloud → cowed → subdued
9. **E** **consoled**
afeared → cheered → consoled
10. **C** **cynical**
receptacle → sceptical → cynical