



BROAD HORIZON
— TUITION —

11+ Tuition

Year 4

Week 20

Revision Lesson

ANSWERS

Starter Task – Quick Revision

1. Workout $\frac{2}{5}$ of 285

114

2. Workout $\frac{4}{7}$ of 350

200

3. Workout $\frac{1}{4}$ of 456

114

4. What is 5 subtract 45?

-40

5. What is 10% of 120

12

6. What is 5% of 120?

6

7. What is 15% of 120?

18

8. What is 25% of 80?

20

9. What is 45% of 250?

112.5

10. What is 35% of 75?

26.25

Name : _____

Score : _____

Teacher : _____

Date : _____

$$\begin{array}{r} 185 \\ \times 29 \\ \hline 5365 \end{array}$$

$$\begin{array}{r} 180 \\ \times 56 \\ \hline 10080 \end{array}$$

$$\begin{array}{r} 684 \\ \times 60 \\ \hline 41040 \end{array}$$

$$\begin{array}{r} 418 \\ \times 20 \\ \hline 8360 \end{array}$$

$$\begin{array}{r} 984 \\ \times 14 \\ \hline 13776 \end{array}$$

$$\begin{array}{r} 600 \\ \times 55 \\ \hline 33000 \end{array}$$

$$\begin{array}{r} 126 \\ \times 32 \\ \hline 4032 \end{array}$$

$$\begin{array}{r} 607 \\ \times 31 \\ \hline 18817 \end{array}$$

$$\begin{array}{r} 443 \\ \times 13 \\ \hline 5759 \end{array}$$

$$\begin{array}{r} 976 \\ \times 77 \\ \hline 75152 \end{array}$$

$$\begin{array}{r} 833 \\ \times 53 \\ \hline 44149 \end{array}$$

$$\begin{array}{r} 127 \\ \times 69 \\ \hline 8763 \end{array}$$

$$\begin{array}{r} 607 \\ \times 51 \\ \hline 30957 \end{array}$$

$$\begin{array}{r} 554 \\ \times 10 \\ \hline 5540 \end{array}$$

$$\begin{array}{r} 408 \\ \times 37 \\ \hline 15096 \end{array}$$

Name : _____

Answer key

Sheet 2

Least Common Multiple

Find the least common multiple for each pair of numbers.

1) 4, 12

Multiples of 4 : 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, ...

Multiples of 12 : 12, 24, 36, 48, 60, 72, 84, 96, 108, 120, ...

LCM(4, 12) = 12

2) 18, 24

Multiples of 18 : 18, 36, 54, 72, 90, 108, 126, 144, 162, 180, ...

Multiples of 24 : 24, 48, 72, 96, 120, 144, 168, 192, 216, 240, ...

LCM(18, 24) = 72

3) 3, 9

Multiples of 3 : 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, ...

Multiples of 9 : 9, 18, 27, 36, 45, 54, 63, 72, 81, 90, ...

LCM(3, 9) = 9

4) 21, 28

Multiples of 21 : 21, 42, 63, 84, 105, 126, 147, 168, 189, 210, ...

Multiples of 28 : 28, 56, 84, 112, 140, 168, 196, 224, 252, 280, ...

LCM(21, 28) = 84

5) 45, 27

Multiples of 45 : 45, 90, 135, 180, 225, 270, 315, 360, 405, 450, ...

Multiples of 27 : 27, 54, 81, 108, 135, 162, 189, 216, 243, 270, ...

LCM(45, 27) = 135

Name : _____

Score : _____

Teacher : _____

Date : _____

Mean, Mode, Median, and Range

1) 17, 7, 7, 17, 14, 14, 16, 20, 14
7, 7, 14, 14, 14, 16, 17, 17, 20

Mean 14 Median 14 Mode 14 Range 13

6) 6, 16, 16, 14, 18, 12, 7, 18, 19
6, 7, 12, 14, 16, 16, 18, 18, 19

Mean 14 Median 16 Mode 16, 18 Range 13

2) 12, 19, 15, 11, 13
11, 12, 13, 15, 19

Mean 14 Median 13 Mode None Range 8

7) 14, 17, 8, 9, 20, 8, 8
8, 8, 8, 9, 14, 17, 20

Mean 12 Median 9 Mode 8 Range 12

3) 15, 9, 12, 15, 9
9, 9, 12, 15, 15

Mean 12 Median 12 Mode 9, 15 Range 6

8) 6, 15, 14, 15, 13, 14, 9, 19, 12
6, 9, 12, 13, 14, 14, 15, 15, 19

Mean 13 Median 14 Mode 14, 15 Range 13

4) 20, 20, 17, 10, 10, 18, 10
10, 10, 10, 17, 18, 20, 20

Mean 15 Median 17 Mode 10 Range 10

9) 14, 20, 20, 7, 11, 12, 9, 8, 7
7, 7, 8, 9, 11, 12, 14, 20, 20

Mean 12 Median 11 Mode 7, 20 Range 13

5) 13, 9, 7, 8, 18
7, 8, 9, 13, 18

Mean 11 Median 9 Mode None Range 11

10) 18, 12, 17, 12, 18, 11, 10
10, 11, 12, 12, 17, 18, 18

Mean 14 Median 12 Mode 12, 18 Range 8

Answers

$5 \times 10 = \mathbf{50}$

$6 \times 100 = \mathbf{600}$

$7 \div 10 = \mathbf{0.7}$

$4 \times 10 = \mathbf{40}$

$70 \div 100 = \mathbf{0.7}$

$6 \times 10 = \mathbf{60}$

$2 \times 100 = \mathbf{200}$

$28 \div 10 = \mathbf{2.8}$

$5 \div 10 = \mathbf{0.5}$

$8 \div 10 = \mathbf{0.8}$

$7 \times 100 = \mathbf{700}$

$8 \times 10 = \mathbf{80}$

$3 \times 100 = \mathbf{300}$

$2 \div 10 = \mathbf{0.2}$

$80 \div 100 = \mathbf{0.8}$

$9 \times 10 = \mathbf{90}$

Fill in the missing numbers:

$7 \times \mathbf{100} = 700$

$30 \div \mathbf{100} = 0.3$

$64 \div \mathbf{10} = 6.4$

$3 \times \mathbf{10} = 30$

Fill in the space with either \times or \div so that the calculation is correct:

$62 \div 10 = 6.2$

$5 \times 100 = 500$

$4 \times 10 = 40$

$40 \div 100 = 0.4$

True (**T**) or False (**F**):

$7 \times 100 = 70$ **F**

$30 \div 100 = 0.3$ **T**

$79 \div 10 = 790$ **F**

$1 \times 10 = 10$ **T**

Answers

$34 \times 10 = \mathbf{340}$

$65 \times 100 = \mathbf{6500}$

$53 \div 10 = \mathbf{5.3}$

$87 \times 10 = \mathbf{870}$

$785 \div 100 = \mathbf{7.85}$

$64 \times 10 = \mathbf{640}$

$39 \times 100 = \mathbf{3900}$

$283 \div 10 = \mathbf{28.3}$

$65 \div 10 = \mathbf{6.5}$

$42 \div 10 = \mathbf{4.2}$

$17 \times 100 = \mathbf{1700}$

$453 \times 10 = \mathbf{4530}$

$34 \times 100 = \mathbf{3400}$

$24 \div 10 = \mathbf{2.4}$

$124 \div 100 = \mathbf{1.24}$

$736 \times 10 = \mathbf{7360}$

Fill in the missing numbers:

$67 \times \mathbf{10} = 670$

$640 \div \mathbf{100} = 6.4$

$68 \div \mathbf{10} = 6.8$

$73 \times \mathbf{100} = 7300$

Fill in the space with either \times or \div so that the calculation is correct:

$542 \div 10 = 54.2$

$473 \div 100 = 4.73$

$46 \times 10 = 460$

$37 \times 10 = 370$

True (**T**) or False (**F**):

$67 \times 100 = 670$ **F**

$568 \div 100 = 0.568$ **F**

$809 \div 10 = 80.9$ **T**

$64 \times 10 = 640$ **T**

Answers

$874 \times 10 = \mathbf{8740}$

$2264 \div 10 = \mathbf{226.4}$

$275 \times 100 = \mathbf{27\ 500}$

$765 \div 10 = \mathbf{76.5}$

$3873 \div 10 = \mathbf{387.3}$

$817 \times 100 = \mathbf{81\ 700}$

$673 \times 10 = \mathbf{6730}$

$734 \times 10 = \mathbf{7340}$

$3802 \div 100 = \mathbf{38.02}$

$403 \times 100 = \mathbf{40\ 300}$

$204 \times 10 = \mathbf{2040}$

$1864 \div 10 = \mathbf{186.4}$

$309 \times 100 = \mathbf{30\ 900}$

$3908 \div 100 = \mathbf{39.08}$

$3002 \div 10 = \mathbf{300.2}$

$8764 \times 10 = \mathbf{87\ 640}$

$4000 \div 100 = \mathbf{40}$

$201 \times 100 = \mathbf{20\ 100}$

Fill in the missing numbers:

$467 \times \mathbf{10} = 4670$

$683 \div \mathbf{10} = 68.3$

$536 \div \mathbf{100} = 5.36$

$855 \times \mathbf{100} = 85\ 500$

Fill in the space with either \times or \div so that the calculation is correct:

$742 \div 10 = 74.2$

$4230 \times 10 = 42\ 300$

$873 \div 100 = 8.73$

$767 \times 10 = 7670$

True (**T**) or False (**F**):

$287 \times 100 = 28\ 700$ **T**

$209 \div 10 = 2.09$ **F**

$176 \div 100 = 600$ **F**

$602 \times 10 = 6200$ **F**

Name : _____

Score : _____

Teacher : _____

Date : _____

Order of Operations

$$\begin{array}{r} 1) (8 - 3) + 20 \div 5 \\ 5 + 20 \div 5 \\ 5 + 4 \\ 9 \end{array}$$

$$\begin{array}{r} 6) 2 \times 8 \times (9 - 6) \\ 2 \times 8 \times 3 \\ 16 \times 3 \\ 48 \end{array}$$

$$\begin{array}{r} 2) (9 + 33 - 2) \div 8 \\ (42 - 2) \div 8 \\ 40 \div 8 \\ 5 \end{array}$$

$$\begin{array}{r} 7) (14 + 3) + 18 \div 6 \\ 17 + 18 \div 6 \\ 17 + 3 \\ 20 \end{array}$$

$$\begin{array}{r} 3) (21 + 2) \times 11 + 6 \\ 23 \times 11 + 6 \\ 253 + 6 \\ 259 \end{array}$$

$$\begin{array}{r} 8) (8 + 16) \div (-4 + 7) \\ 24 \div 3 \\ 8 \end{array}$$

$$\begin{array}{r} 4) (18 - 4) \times 12 + 5 \\ 14 \times 12 + 5 \\ 168 + 5 \\ 173 \end{array}$$

$$\begin{array}{r} 9) (8 + 45 - 5) \div 24 \\ (53 - 5) \div 24 \\ 48 \div 24 \\ 2 \end{array}$$

$$\begin{array}{r} 5) 3 \times 2 \times (3 - 3) \\ 3 \times 2 \times 0 \\ 6 \times 0 \\ 0 \end{array}$$

$$\begin{array}{r} 10) (8 + 42) \div (-1 + 6) \\ 50 \div 5 \\ 10 \end{array}$$

Name : _____

Score : _____

Teacher : _____

Date : _____

Rounding Integer Numbers

Round each number to the nearest hundred.

1) 972 1,000

6) 693 700

2) 635 600

7) 622 600

3) 995 1,000

8) 475 500

4) 228 200

9) 634 600

5) 492 500

10) 798 800

Round each number to the nearest hundred.

1) 4,161 4,200

6) 1,556 1,600

2) 3,249 3,200

7) 4,117 4,100

3) 8,379 8,400

8) 6,945 6,900

4) 4,673 4,700

9) 4,279 4,300

5) 5,928 5,900

10) 4,279 4,300

Name: _____

Score: _____

Answer key**Start, End and Elapsed Time**

Nearest Minutes: ES2

Q.No	Start Time	End Time	Elapsed Time
1)	3:05 A.M.	8:21 A.M.	5 hours and 16 minutes
2)	8:34 P.M.	11:52 P.M.	3 hours and 18 minutes
3)	3:10 A.M.	9:44 A.M.	6 hours and 34 minutes
4)	8:12 P.M.	10:27 P.M.	2 hours and 15 minutes
5)	1:18 A.M.	10:09 A.M.	8 hours and 51 minutes
6)	7:10 P.M.	8:52 P.M.	1 hour and 42 minutes
7)	5:33 A.M.	8:47 A.M.	3 hours and 14 minutes
8)	4:54 P.M.	10:03 P.M.	5 hours and 9 minutes
9)	3:16 A.M.	9:28 A.M.	6 hours and 12 minutes
10)	5:19 P.M.	6:04 P.M.	45 minutes
11)	1:08 A.M.	7:17 A.M.	6 hours and 9 minutes
12)	2:22 P.M.	Midnight	9 hours and 38 minutes
13)	5:45 A.M.	9:33 A.M.	3 hours and 48 minutes
14)	3:11 P.M.	10:10 P.M.	6 hours and 59 minutes
15)	8:14 A.M.	11:36 A.M.	3 hours and 22 minutes

Test 3 - Leonardo Da Vinci

Question	Answer	Explanation
1	A	Reader's logical inference required. The title of the piece is 'Leonardo da Vinci' and the text describes events and details from his life.
2	D	Refer to line 7: 'In 1482, he moved to Milan...'
3	D	Refer to lines 9-10: '...until the city was invaded by the French in 1499 and the Sforza family was forced to flee'.
4	D	Refer to lines 13-15: 'Rather than a more traditional canvas, da Vinci used a cottonwood panel for its base, which has allowed the painting to survive for six centuries without restoration.'
5	B	Refer to lines 17-18: '...at the invitation of the French King, Francis I, Leonardo moved to the Château of Cloux...'
6	A	Reader's logical inference required. Refer to lines 4 and 19: 'Leonardo da Vinci was born on 15 th April 1452...' and '...he died on 2 nd May 1519.' Using his date of birth and death you can calculate that he lived for 67 years.
7	E	Knowledge of vocabulary required. Refer to line 22: ' <i>sfumato</i> —the blurring of sharp edges by blending colours...'. 'Blurring' means to be unclear or less distinct.
8	B	Refer to lines 23-24: 'He was renowned for his unique method of laying on paint...'
9	B	Knowledge of vocabulary required. Refer to lines 27-29: '...his drawing of the Vitruvian Man is regarded as a cultural icon, reproduced on items as varied as currency...'. 'Currency' is another word for money.
10	A	Refer to line 39: '...mostly written in left-handed mirror script.'
11	E	Reader's logical inference required. Refer to lines 39-41: 'He pre-empted the invention of the bicycle, aeroplane, helicopter and parachute some 500 years ahead of their time.' 'Train' is the only one not listed.
12	C	Knowledge of vocabulary required. Refer to lines 45 and 48: '...there is no record that he ever attended school...' and 'A key factor is likely to have been his illegitimacy...'. 'Illegitimacy' refers to the fact that his parents weren't married at the time of his birth.
13	B	Refer to lines 53-54: '...the Biblioteca Ambrosiana in Milan, which holds the twelve-volume Codex Atlanticus...'
14	C	Refer to lines 55-57: 'The Codex Leicester... is displayed once a year in different cities around the world.'
15	E	Reader's logical inference required. Refer to lines 59-60: '...da Vinci was admired by his peers for his grace, generosity and respect for life. Da Vinci was a vegetarian...' The fact that Da Vinci was a vegetarian demonstrates his respect for life because it shows that he did not want to kill animals for food.

make.

Q6 B me

Correct sentence: *My friends and I love to go to the seaside in summer. OR In summer my friends and I love to go to the seaside.*

Test 3 Cloze

- Q1** study
Q2 talent
Q3 exposed
Q4 leading
Q5 supported

Test 5 Antonyms

- Q1** MINORITY
Q2 NEGATIVE
Q3 PROBABLE
Q4 HINDER
Q5 ARTIFICIAL
Q6 MISPLACE
Q7 ABANDON
Q8 WORSE
Q9 GENUINE
Q10 INNOCENT

Test 6 Missing Letters

- Q1** ACCOMPLISH
Q2 DAMAGE
Q3 COMPONENT
Q4 NARROW
Q5 AFFLUENT
Q6 DONATE
Q7 IMITATE
Q8 AUDIBLE
Q9 OBSERVE
Q10 SEPARATE
Q11 INTIMATE
Q12 HINDER
Q13 FORTUNATE
Q14 HARMLESS
Q15 SATISFACTORY

Test 7 Correct Sentence

- Q1** A
There are many ways to solve this problem.
- Q2** D
The man was always borrowing money from his friend.
- Q3** B
Many of the hottest countries are close to the equator.
- Q4** C
You must eat neither wheat nor dairy if you are allergic to them.
- Q5** A

Q12 D

Always check your bike's brakes before you start riding.

Test 8 Complete the Sentence

- Q1** C convey
Q2 A neglect
Q3 D fortune
Q4 D prosperity
Q5 B bashful
Q6 E solitary
Q7 A independent
Q8 B aroma
Q9 D taunted
Q10 C obstacles

Test 9 Synonyms

- Q1** UNPREDICTABLE
Q2 DOUBTFUL
Q3 RELUCTANT
Q4 TIMID
Q5 ENERGETIC
Q6 DEPENDABLE
Q7 DETERMINED
Q8 PUZZLED
Q9 DELICATE
Q10 OUTRAGED

Test 13 Synonyms

- Q1 D scattered
Q2 E perspire
Q3 D unhappy
Q4 C destroy
Q5 A feisty
Q6 C distant
Q7 D change

Test 14 Fill the Letters

- Q1 ACCURATE
Q2 STRANGE
Q3 DRAWN
Q4 PATTERN
Q5 RESEMBLE

- Q5 *It's becoming increasingly difficult to justify his actions.*
Q6 *The politician had developed into a formidable adversary.*
Q7 *My watch has stopped working because the battery has run out.*
Q8 *Disease and famine have hindered the country's progress. OR Famine and disease have hindered the country's progress.*

Test 17 Antonyms

- Q1 E awkward
Q2 A disobey
Q3 B inattentive
Q4 C unfulfilled
Q5 D ignore
Q6 B reasonable
Q7 C focused

Test 18 Comprehension

- Q1 A
Mongoose
Q2 D
He was excited about hunting in the garden
Q3 D
His child had been devoured by Nag
Q4 D
Fearful
Q5 B
Scampered
Q6 C
Adverb

Test 19 Unnecessary Word

- Q1 D sun
Correct sentence: The rocky mountains loomed over the grassy field.
Q2 B soiled
Correct sentence: Gardeners love to tend to their plants and herbs.
Q3 B smelled
Correct sentence: The accountant was shocked by the man's disorganisation.
Q4 A hoax
Correct sentence: It is believed that evil spirits dwell inside that house.
Q5 B fast
Correct sentence: The forest is slowly disappearing due to illegal logging.
Q6 C hover
Correct sentence: The clouds formed a beautiful pattern in the blue sky.

Test 20 Cloze

- Q1 barbarous
Q2 Gradually
Q3 caves
Q4 supply

- Q10 idle
Q11 likeness
Q12 arrows

Test 21 Odd One Out

- Q1 B owl
The other three are sea creatures.
Q2 C clever
The other three are synonyms.
Q3 D television
The other three are things you read.
Q4 A hate
The other three are adjectives.
Q5 C window
The other three are things you sit on.
Q6 B Canada
The other three are countries in Europe.
Q7 C reverse
The other three are synonyms.
Q8 B cook
The other three are verbs involving cutting.
Q9 D lounge
The other three are synonyms.
Q10 A garden
The other three are collective nouns.

Test 22 Antonyms

- Q1 FRESH
Q2 ACQUIRE
Q3 CONFESS
Q4 SOPHISTICATED
Q5 TROUGH
Q6 INEFFECTIVE
Q7 PREDATOR
Q8 MULTIPLICATION
Q9 ADVANCE
Q10 RECKLESS

Synonyms Test 26

Q1) Obvious

Q2) United

Q3) Intentional

Q4) Towering

Q5) unusua

Q6) Correct

Q7) Delight

Q8) Disgard

Q9) Withdraw

Q10) Eliminate

Q14 lea
(misleading)

Q15 sol
(consolation)

Synonyms: Write in the Word Test 16

Q1 sun
(sundown)

Q2 ing
(surroundings)

Q3 emp
(temper)

Q4 urt
(unhurt)

Q5 law
(unlawful)

Q6 ast
(vast)

Q7 car
(scarcity)

Q8 sat
(satisfied)

Q9 sin
(sincere)

Q10 ure
(sure)

Q11 abl
(stable)

Q12 abl
(reliable)

Q13 own
(touchdown)

Q14 ave
(gravestone)

Q15 gre
(greedy)

Synonyms: Write in the Word Test 17

Q1 ive
(liveable)

Q2 ial
(artificial)

Q3 per
(prosperous)

Q4 son
(reasonable)

Q5 pen
(dependable)

Q6 ret
(regret)

Q7 ark
(remark)

Q8 dep
(depressing)

Q9 iss
(missing)

Q10 sen
(senseless)

Q11 mil
(mild)

Q12 ame
(nameless)

Q13 are
(bare)

Q14 oon
(noon)

Q15 ous
(numerous)

Synonyms: Write in the Word Test 18

Q1 sen
(essential)

Q2 all
(nightfall)

Q3 ser
(serviette)

Q4 gic
(magician)

Q5 san
(insanity)

Q6 sol
(isolated)

Q7 con
(contemporary)

Q8 mis
(misery)

Q9 oad
(abroad)

Q10 ous
(poisonous)

Q11 ise
(praise)

Q12 ous
(delicious)

Q13 ice
(choice)

Q14 sig
(significant)



Q15 oil
(soiled)

Q7 C
controlled

Q8 C

- Q6 B**
nicknamed
- Q7 C**
disguised
- Q8 A**
accomplices
- Q9 F**
apprehended
- Q10 H**
perpetrators

Cloze Wordbank Test 10

- Q1 A**
average
- Q2 I**
flightless
- Q3 H**
frigid
- Q4 J**
insulating
- Q5 C**
feathers
- Q6 F**
protect
- Q7 G**
fierce
- Q8 D**
conditions
- Q9 B**
huddle
- Q10 E**
groups

Cloze Wordbank Test 11

- Q1 B**
inhabitants
- Q2 I**
arrived
- Q3 E**
memory
- Q4 C**
human
- Q5 F**
divided
- Q6 G**
subject
- Q7 D**
knowledge
- Q8 H**
useful

- Q9 J**
inhabited
- Q10 A**
imprisoned

Cloze Wordbank Test 12

- Q1 E**
traditional
- Q2 J**
dessert
- Q3 A**
accompaniments
- Q4 F**
households
- Q5 B**
sprig
- Q6 G**
offer
- Q7 C**
douse
- Q8 I**
alight
- Q9 D**
hearty
- Q10 H**
mixture

Cloze Wordbank Test 13

- Q1 H**
commonly
- Q2 E**
represent
- Q3 A**
credited
- Q4 B**
legend
- Q5 J**
travels
- Q6 D**
hermit
- Q7 I**
living
- Q8 G**
demanded
- Q9 C**
sacrifice
- Q10 F**
maiden

- Q6 C *wel* → *well*
 Q7 A *styfle* → *stifle*
 Q8 D *eazy* → *easy*
 Q9 B *bizzare* → *bizarre*
 Q10 E *felow* → *fellow*

Test 29 Change a Letter

- Q1 FROST
 Q2 HYPE
 Q3 WINTER
 Q4 FEIGN
 Q5 HAWK
 Q6 SCARF
 Q7 HOVER
 Q8 DAIRY
 Q9 COMA
 Q10 SEVER
 Q11 BOTCH
 Q12 SLICE

Test 30 Synonyms

- Q1 B *frugal*
 Q2 A *thorough*
 Q3 D *derelict*
 Q4 C *surround*
 Q5 E *quick*
 Q6 D *trustworthy*
 Q7 A *restricted*

Test 31 Fill the Letters

- Q1 ABRUPT
 Q2 BOISTEROUS
 Q3 MUNDANE
 Q4 PROSPEROUS
 Q5 INTREPID
 Q6 CONTROVERSY
 Q7 STRATEGY
 Q8 CALAMITY
 Q9 DESTITUTE
 Q10 REPLENISH

Test 32 Cloze

- Q1 *forced*
 Q2 *gnawing*
 Q3 *ravaged*
 Q4 *abandoned*
 Q5 *desecrated*
 Q6 *wandered*
 Q7 *insolent*
 Q8 *rounded*
 Q9 *destructive*
 Q10 *expel*
 Q11 *encounter*
 Q12 *stupor*

Test 33 Rearrange the Words

- Q1 *The department store was struggling to attract shoppers.*
 Q2 *The new policy will not come into effect until next year.*
 Q3 *We would like to offer you a complimentary beverage.*
 Q4 *The arrogant lawyer dismissed my valid concerns.*
 Q5 *The king decided to endorse neither candidate.*
 Q6 *The rhinoceros lowered his head to drink from the stream.*
 Q7 *My mother was a very perceptive woman.*
 Q8 *The toddlers were captivated by the magical clown.*

Test 34 Antonyms

- Q1 A *crooked*
 Q2 B *hostile*
 Q3 E *accept*
 Q4 B *detest*
 Q5 D *comforting*
 Q6 D *brisk*
 Q7 E *comical*

Test 35 Comprehension

- Q1 B
March
 Q2 E
Symbolic

3D Rotation

6. **A**

Shape A rotates 90 degrees towards you, top-to-bottom.

7. **C**

Shape C rotates 90 degrees clockwise in the plane of the page.

8. **D**

Shape D rotates 90 degrees left-to-right.

9. **B**

Shape B rotates 90 degrees away from you, top-to-bottom.

2D and 3D Shapes — p.20-21

Warm Up

1. a)2 b)3 c)5 d)3 e)4 f)5

2. a)C b)E c)F d)D e)B

2D Views of 3D Shapes

3. **D**

There are four blocks visible from above, which rules out options B and C. There is only one block visible on the right-hand side, which rules out option A.

4. **A**

There are five blocks visible from above, which rules out options B and D. There are three blocks visible on the right-hand side, which rules out option C.

5. **D**

There are five blocks visible from above, which rules out options A and C. There are three blocks visible on the left-hand side, which rules out option B.

Cubes and Nets

6. **D**

Option A is ruled out because there is no face with a black dot on the net. Option B is ruled out because the black face and the face with a heart should be on opposite sides. Option C is ruled out because the face with the grey hexagon and the face with the black arrow should be on opposite sides.

7. **C**

Option A is ruled out because there aren't two faces with crosses on the net. Option B is ruled out because the face with the grey rectangle and the face with the figure 8 should be on opposite sides. Option D is ruled out because there is no face with a grey star on the net.

8. **A**

Option B is ruled out because the face with the grey circle and the face with the black cross should be on opposite sides. Option C is ruled out because there aren't two faces with pentagons on the net. Option D is ruled out because the bottom of the letter F should be next to the face with the star on it.

ASSESSMENT TEST 1

Section 1 — Complete the Pair

1. **D**

The circle alternates colour between black and white.

2. **B**

The small shape at the front moves behind the large shape.

3. **D**

The figure is rotated 90 degrees anticlockwise.

4. **A**

The two circles move to the right of the shapes and swap shadings.

5. **B**

The figure rotates 180 degrees and its outline changes.

6. **B**

The small shape at the front becomes the large shape at the back, and the large shape at the back becomes the small shape at the front.

7. **C**

Taken together, the bottom two shapes reflect downwards (or the shapes change places and the arrow points in the opposite direction).

8. **C**

The small white shape rotates 90 degrees clockwise. The large black shape becomes white and the small white shape becomes black.

Section 2 — Find the Figure Like the First Two

1. **D**

All figures must have a small white shape on a larger black shape on a large white shape.

2. **C**

All figures must have a black crescent on a white circle.

3. **B**

All figures must be made up of straight lines and right angles.

4. **B**

All figures must have a white four-pointed star inside a black shape.

5. **A**

All figures must have two shapes which overlap to make a smaller version of the two overlapping shapes.

6. **D**

All figures must have a large shape below a smaller version of the same shape which has been reflected upwards.

7. **C**

All figures must have a shape with a thick black outline containing two white triangles and one black triangle.

8. **A**

All figures must have three arrows, two pointing to the left and one pointing to the right.

Section 3 — Complete the Hexagonal Grid

1. A

The shapes are reflected across the middle of the hexagonal grid.

2. B

Going in a clockwise direction from the top-left hexagon, each outer hexagon gains one extra triangle. Each triangle added is smaller than the previous ones added.

3. C

Going in a clockwise direction from the top hexagon, each outer hexagon rotates 60 degrees clockwise.

4. B

Going in a clockwise direction from the bottom-left hexagon, each outer hexagon gains a vertical line to the left of the existing lines. The lines are then spaced equally inside the circle.

5. D

Going in an anticlockwise direction from the bottom-right hexagon, the square in each outer hexagon increases in size. The outline of the squares alternates between solid and dotted.

6. A

The shapes are reflected across the middle of the hexagonal grid.

7. D

Going in an anticlockwise direction from the bottom-left hexagon, the next circle down is shaded grey in each outer hexagon.

8. A

Each outer hexagon has a black semicircle on the innermost side and a black sector on each of the two middle corners.

Section 4 — Rotate the Figure

1. C

The figure is rotated 225 degrees clockwise (or 135 degrees anticlockwise). Option A is a reflected rotation. Options B and D are the wrong shape.

2. A

The figure is rotated 270 degrees clockwise (or 90 degrees anticlockwise). In options B, C and D, the black shading is the wrong shape.

3. A

The figure is rotated 135 degrees clockwise. In option B, the white triangle has been shaded grey. In option C, the triangles are positioned incorrectly. Option D is a reflected rotation.

4. D

The figure is rotated 90 degrees. Options A and C have the wrong number of grey circles. In option B, the circles line up with the sides of the hexagon instead of its corners.

5. B

The figure is rotated 45 degrees clockwise. In option A, the outline of the rectangle has become dotted and the outlines of the squares have become solid. In option C, the squares are positioned incorrectly. Option D is a reflected rotation.

6. C

The figure is rotated 180 degrees. Option A is a reflected rotation. Option B is the wrong shape. Option D has the wrong shading.

7. D

The figure is rotated 180 degrees. Option A doesn't have a line across the circle. Option B is a reflected rotation. Option C only has a semicircle.

8. C

The figure is rotated 135 degrees clockwise. Option A is a reflected rotation. In option B, the black diamond has become white. In option D, the white diamond has become black.

9. A

The figure is rotated 225 degrees clockwise (or 135 degrees anticlockwise). Option B is a reflected rotation. In options C and D, the arrowheads are positioned incorrectly.

10. B

The figure is rotated 270 degrees clockwise (or 90 degrees anticlockwise). Options A and D are the wrong shape. Option C is a downwards reflection.

Section 5 — Complete the Series

1. B

In this series, the pattern alternates between a small white circle on top of a large black circle, and a small black circle on top of a large white circle.

2. B

The arrow rotates 90 degrees anticlockwise in each series square.

3. C

In each series square, the shape gains an extra side.

4. B

The squares in this series are in two pairs. In each pair, the large star is removed so only the small star remains.

5. B

In each series square, the size of the pentagon increases. The pentagons rotate 180 degrees in each series square.

6. A

In each series square, the shape rotates 45 degrees anticlockwise. Its outline alternates between dashed and solid lines.

7. D

The different types of shading move clockwise to the next small triangle in each series square.

8. C

In each series square, the hexagon loses an arrow and gains a circle.

9. D

In each series square, a quarter of the grey circle is removed and is replaced by a quarter of the hatched circle. (In C, the hatching is going in the wrong direction.)

10. C

In each series square, the shape rotates 90 degrees anticlockwise and alternates between small and large.