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ISEE PRACTICE TEST 1: UPPER LEVEL

SAMPLE TEST PAPER

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Section 1

Verbal Reasoning

7 Questions**Time: 3.5 minutes**

This section has two parts with two different types of question. You may write your answers in your test booklet. To select your answer, fill the corresponding circle in the answer booklet.

Part One – Synonyms

Each question lists a word in capital letters followed by four answer choices. Choose the word from the four choices that is most nearly the same in meaning as the capitalized word.

SAMPLE QUESTION:

HEARTFELT:

- (A) loving
- (B) insincere
- (C) unhealthy
- (D) humorous

Sample Answer:

- (A) (B) (C) (D)

Part Two – Sentence Completion

Each question in this section consists of a sentence with one or two blanks. One blank space indicates that one word is missing. Two blank spaces indicate that two words are missing. There are four choices to select from. Select one word or pair of words that best completes the meaning of the sentence as a whole.

SAMPLE QUESTIONS:

Joseph was a dependable man. So much so that, in business, a simple handshake with him was a _____ agreement.

- (A) antipathetic
- (B) scintillating
- (C) tactful
- (D) tacit

Sample Answer:

- (A) (B) (C) (D)

The animals and plants that _____ the UK represent a rich and varied _____ on our doorstep.

- (A) decimate . . . lifestyle
- (B) inhabit . . . biodiversity
- (C) penetrate . . . fauna
- (D) elevate . . . culture

Sample Answer:

- (A) (B) (C) (D)



Part One - Synonyms

Directions: Select the word that is most nearly the same in meaning as the word in capital letters.

1. HOARD:

- (A) Stockpile
- (B) Burrow
- (C) Mine
- (D) Dessert

2. APPOINT:

- (A) Score
- (B) Discuss
- (C) Nominate
- (D) Ensure

3. TAME:

- (A) Lost
- (B) Evasive
- (C) Pushy
- (D) Submissive

4. KNACK

- (A) Bruise
- (B) Ability
- (C) Keepsake
- (D) Scoundrel

5. ESCHEW

- (A) Revert
- (B) Accompany
- (C) Admire
- (D) Abstain



Part Two – Sentence Completion

Directions: Select the word or word pair that best completes the sentence.

6. It is a shame that Robert is not attending class with his usual ____, instead appearing to be morose and uninterested.

- (A) Zeal
- (B) Apathy
- (C) Lethargy
- (D) Consistency

7. Gratefully, the girl realized that her weekly book group was really helping to __ her love of the classics.

- (A) Beset
- (B) Exhaust
- (C) Protract
- (D) Nourish



Section 4

Mathematics Achievement

5 Questions

Time: 6 minutes

In this section, read each question and select which one of the four answer choices is best.

You may write in the test booklet. For each question, fill the corresponding circle on your answer document. Check that the row has the same number as the question.

SAMPLE QUESTION:

Sample Answer:

What is the perimeter of a square that has side length 5 cm?

(A) (B) ● (D)

- (A) 10cm
- (B) 15cm
- (C) 20cm
- (D) 25cm

The correct answer is 20cm, so choice C is darkened.



1. What is the product of 1.5×10^4 and 1.5×10^5 ?

- (A) 2.25×10^9
- (B) 2.25×10^{20}
- (C) 2.5×10^9
- (D) 2.5×10^{20}

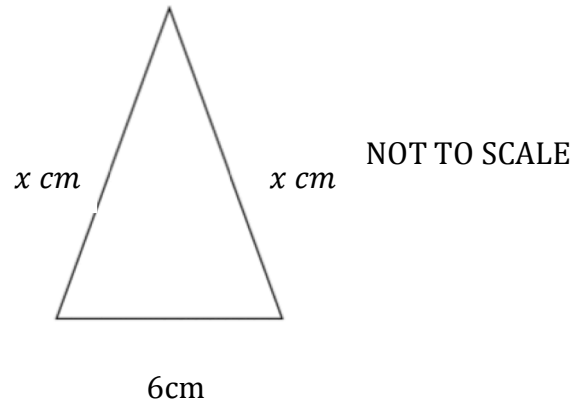
2. $\frac{y}{3} \times \frac{2}{x} \times \frac{2x}{4} \times \frac{3}{y^2} \times Z = ?$

- (A) $\frac{z}{2} y$
- (B) $\frac{1}{2} y$
- (C) $\frac{z}{y}$
- (D) $\frac{xyz}{4xz}$

3. Which of the following is equivalent to the expression $\frac{x^2+2x-8}{x^2-4}$?

- (A) $x - 2$
- (B) $2x - 2$
- (C) $\frac{x+4}{x+2}$
- (D) $\frac{x-2}{x+2}$

4. The area of the isosceles triangle below is 12cm^2 . What is the value of x ?



- (A) 4 cm
- (B) 5 cm
- (C) 6 cm
- (D) 7 cm

5. The ratio of the five angles in a pentagon is 4:3:2:2:1. What is the size of the smallest angle?

- (A) 30°
- (B) 45°
- (C) 60°
- (D) 90°



ISEE MIDDLE LEVEL ANSWER SHEET

- Fill circles darkly & completely
 - Use a #2 pencil
- If you change your mind, erase markings as completely as possible

VERBAL REASONING

- 1 A B C D
- 2 A B C D
- 3 A B C D
- 4 A B C D
- 5 A B C D
- 6 A B C D
- 7 A B C D

MATHEMATICS ACHIEVEMENT

- 1 A B C D
- 2 A B C D
- 3 A B C D
- 4 A B C D
- 5 A B C D



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ISEE PRACTICE TEST 1: MIDDLE LEVEL

SAMPLE TEST PAPER:
ANSWERS & EXPLANATIONS



SECTION 1: VERBAL REASONING

SYNONYMS

QUESTION 1: **Solution: A** is the correct answer. Hoard is being used as a verb, meaning to accumulate (money of valued objects). The best answer, A, is “stockpile”.

QUESTION 2: **Solution: C** is the correct answer. Appoint is being used as a verb, meaning to assign a job or role to someone. The best answer, C, is “nominate”.

QUESTION 3: **Solution: D** is the correct answer. Tame is being used as an adjective, meaning willing to cooperate. The best answer, D, is “submissive”.

QUESTION 4: **Solution: B** is the correct answer. Knack is being used as a noun, meaning an acquired or natural skill at doing something. The best answer, B, is “ability”.

QUESTION 5: **Solution: D** is the correct answer. Eschew is being used as a verb, meaning to deliberately avoid using. The best answer, D, is “abstain”.

SENTENCE COMPLETION

QUESTION 6: **Solution: A is the best answer.** Zeal is a noun meaning enthusiasm or passion. Robert’s current morose (moody) and uninterested state is contrasted from his “usual” state. The meaning of the sentence is: “It is a shame that Robert is not attending class with his usual enthusiasm, instead appearing to be morose and uninterested.”

QUESTION 7: **Solution: The best answer is D.** Nourish means to help grow or develop. The context shows us that the girl is pleased with the way her book group helps to develop her love of the classics. The meaning of the sentence is: “gratefully, the girl realized that her weekly book group was really helping to develop her love of the classics.”



SECTION 4: MATHEMATICS ACHIEVEMENT

QUESTION 1: **The correct answer is A.** This is a question on standard form. To solve:

- (1) Multiply coefficients: $1.5 \times 1.5 = 2.25$
- (2) Multiply $10^4 \times 10^5$ by adding the indices $10^{4+5} = 10^9$
- (3) Answer is 2.25×10^9

QUESTION 2: **The correct answer is C.**

- (1) Note that $Z = \frac{Z}{1} \rightarrow \frac{y}{3} \times \frac{2}{x} \times \frac{2x}{4} \times \frac{3}{y^2} \times \frac{Z}{1}$
- (2) Multiply numerators = $y \times 2 \times 2x \times 3 \times z = 12xyz$
- (2) Multiply denominators = $3 \times x \times 4 \times y^2 \times 1 = 12xy^2$
- (3) $\frac{12xyz}{12xy^2} = \frac{z}{y}$

QUESTION 3: **The correct answer is C.** Factorise the numerator and denominator to identify common factors between the equations that you can cancel out.

- (1) Factorise: $x^2 + 2x - 8 = (x+4)(x-2)$
- (2) Factorise $x^2 - 4 = (x+2)(x-2)$
- (3) Therefore:

$$\frac{x^2 + 2x - 8}{x^2 - 4} = \frac{(x+4)(x-2)}{(x+2)(x-2)}$$

- (4) Cancel out common factor (x-2)

$$\frac{(x+4)\cancel{(x-2)}}{(x+2)\cancel{(x-2)}} = \frac{(x+4)}{(x+2)}$$

QUESTION 4: **The correct answer is B.** Area of triangle = $\frac{1}{2} \times \text{base} \times \text{height}$.

First we must find the vertical height of the triangle:

$$\text{Area of triangle} = \frac{1}{2} \times \text{base} \times \text{height}$$

$$12 = \frac{1}{2} \times 6 \times \text{height}$$

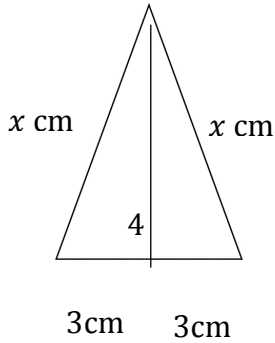
$$12 = 3 \times \text{height}$$

$$\text{height} = 12 \div 3$$

$$\text{height} = 4\text{cm}$$



To find x we can split the shape in half to reveal two right-angled triangles:



Use Pythagoras to find x :

$$x^2 = 4^2 + 3^2$$

$$x^2 = 16 + 9$$

$$x^2 = 25$$

$$x = 5\text{cm}$$

QUESTION 5: The correct answer is B; 45° . The sum of angles in a quadrilateral = 540° . The sum of the ratios is $4 + 3 + 2 + 2 + 1 = 12$. We can represent the ratios as fractions over 12:

$$\frac{4}{12} : \frac{3}{12} : \frac{2}{12} : \frac{2}{12} : \frac{1}{12}$$

$\frac{1}{12}$ is the smallest angle $\rightarrow \frac{1}{12}$ of $540 = 540 \div 12 = 45^\circ$