

Review 1



Choose the correct answer and write its number in the brackets provided.

[7 marks]

1. Evaluate $16a - 6a$ when $a = 3$.

(1) 10

(3) 30

(2) 18

(4) 48

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2. Simplify $6a + 6 + 27a - 3$.

(1) $33a$

(3) $33a - 9$

(2) $33a + 3$

(4) $36a$

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3. Find the value of $\frac{3}{5} \div \frac{1}{10}$.

(1) $\frac{3}{50}$

(3) 5

(2) $\frac{1}{2}$

(4) 6

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4. Wendy brought 6 pies to her office. The pies were shared by a group of colleagues. If each colleague ate $\frac{1}{2}$ of a pie. How many colleagues shared the pies?

(1) 12

(3) 3

(2) 24

(4) 4

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5. Kate has x stickers. Mary has 4 times as many stickers as Kate. Jenny has 7 more stickers than Mary. How many stickers does Jenny have?

(1) $x + 7$

(3) $4x + 7$

(2) $4x$

(4) $28x$

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6. Fiona had 3 kg of spinach. $\frac{1}{2}$ kg of spinach was sold to Mrs Simon and the rest was packed equally into 3 bags. Find the mass of each bag of spinach.

(1) $\frac{1}{2}$ kg

(3) 1 kg

(2) $\frac{5}{6}$ kg

(4) $2\frac{1}{2}$ kg

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7. Joyce had \$ z . She gave \$23 to her brother. Her father gave her another \$16. If $z = 81$, how much did Joyce have in the end?

(1) \$39

(3) \$74

(2) \$58

(4) \$120

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Write your answers on the lines provided.

8. Simplify $5a + 9 + 7a - 3$.


_____ [1 mark]

9. Linda is b years old. Her mother is 6 times as old as Linda. Her grandmother is 24 years older than her mother. Find her grandmother's age.

_____ [1 mark]

10. A bag of apples has a mass of 4 kg. The average mass of each apple is $\frac{1}{8}$ kg. How many apples are in the bag?


_____ [1 mark]

 11. Evaluate the algebraic expression when $y = 13$.
 $8y - 29 + 3y - 18$

_____ [1 mark]

12. Zoe has some cloth. She uses the cloth to make 12 pillowcases. Each pillowcase uses $\frac{5}{8}$ m of the cloth. She still has $\frac{5}{12}$ m of cloth left. How long is the cloth?

_____ [2 marks]

 13. An author wrote $\frac{1}{4}$ of a book in the first week and another $\frac{1}{8}$ of it in the second week. He finished writing the book in another two weeks. If he wrote 95 pages in the last two weeks, what was the total number of pages in the book?

_____ [3 marks]

14. The average mass of three boys is $6v$ kg. The average mass of two girls is $6v$ kg. Find the average mass of the five children.

_____ [3 marks]

15. George bought a dozen pencils. The pencils cost \$ m .
What was the cost of each pencil? _____


[1 mark]

Do these word problems. Show your working clearly in the space provided.

16. Rick is $(n + 4)$ years old now. Edwin is 6 years old.

(a) What will be their total age in 10 years' time? Express your answer in terms of n . [2 marks]

(b) If $n = 8$, find their total age in 10 years' time. [1 mark]

-  17. 240 marbles were shared between some boys and 3 girls. The number of marbles that the girls had was $\frac{3}{8}$ of the total number of marbles.

(a) Find the number of marbles each girl had. [1 mark]

(b) If each boy had 25 marbles, how many boys were there? [1 mark]

18. At a seminar, $\frac{2}{5}$ of the audience members were students. $\frac{3}{10}$ of them were retirees. The rest were professionals. There were 18 more students than professionals. How many audience members were at the seminar?

[3 marks]


19. Pauline has m cards. Sarah has 3 times as many cards as Pauline. Ivy has 22 more cards than Pauline while Casey has $(m + 12)$ more cards than Sarah.

(a) How many cards do they have altogether? Express your answer in terms of m .

[3 marks]

(b) If they share all the cards equally, how many cards does each of them get? Express your answer in terms of m .

[1 mark]

-  **20.** Alicia bought a wallet for \$29. She bought a bag which cost 5 times as much as the wallet.
- (a) If Alicia had \$ y left after buying these two items, how much did Alicia have at first? Express your answer in terms of y . **[2 marks]**
- (b) If $y = 52$, how much did Alicia have at first? **[1 mark]**