

Ex 4 Integers*Section A: Non calculator*

1. Calculate:

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|----|----------------|----|------------------|----|------------------|
| a. | -5×8 | b. | $-2 - 11$ | c. | $-9 \times (-4)$ |
| d. | $18 \div (-3)$ | e. | $21 - (-5)$ | f. | $-54 \div (-6)$ |
| g. | $-7 + (-9)$ | h. | $-7 \times (-6)$ | | |

*Section B: Knowledge*2. If $a = 4$, $b = -3$ and $c = 9$, find the value of the following

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|----|-------------|----|------------|----|-----------------|
| a. | $ab + c$ | b. | $-(bc)$ | c. | $\frac{b+c}{a}$ |
| d. | $-a(b+c)^2$ | e. | $b^2 - c$ | f. | $(abc)^2$ |
| g. | $c^2 - b$ | h. | $a^2 - 2b$ | | |

3. Simplify

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|----|-------------------------------|----|-----------------|----|----------------------|
| a. | $5a + (-2a)$ | b. | $-3p \times 4q$ | c. | $(-7r) \times (-7r)$ |
| d. | $\frac{-5y \times (-6y)}{-3}$ | | | | |

4. Solve the following equations for x :

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|----|--------------------|----|--------------------|----|----------------|
| a. | $3x = -15$ | b. | $-7x = 49$ | c. | $-5x = -40$ |
| d. | $6x + 14 = 8$ | e. | $12 - 4x = 36$ | f. | $50 + 6x = 26$ |
| g. | $7x + 7 = 5x - 11$ | h. | $3x + 13 = 9 - 5x$ | | |
| i. | $4x - 8 = 6x - 14$ | | | | |

Section C: Mixed

5. A metal square, with side 7 cm, has a 2 cm diameter hole punched through its middle.
Find the area of the metal remaining (shaded area).

