



# Variables and expressions

## Grade 5 Pre-Algebra Worksheet

Write an expression to answer each question. State what the variable is. The first one is done for you as an example.

|                                                                                                             | <u>Expression</u> | <u>Variable</u>                            |
|-------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------|
| <i>John scored 3 more points than James. How many points did John score?</i>                                | $p + 3$           | $p = \text{number of points James scored}$ |
| 1. Angel had \$45 in her pocket. She bought a dress for \$d. How much does she has left?                    | _____             | _____                                      |
| 2. Jess is 3 years younger than Mary. How old is Mary?                                                      | _____             | _____                                      |
| 3. Sarah earns \$6 each from selling tumblers. How much would be her earnings after selling t tumblers?     | _____             | _____                                      |
| 4. Jay had b toy cars. He donated 23 of his toy cars to an orphanage. How many toy cars were left?          | _____             | _____                                      |
| 5. Alexander cut the j meter-long water pipe into 5 equal pieces. How long is each piece of the water pipe? | _____             | _____                                      |
| 6. Dennis works for \$8 per hour at a town's bakeshop. How much money will he earn after x hours?           | _____             | _____                                      |
| 7. Jenny works 15 minutes less than Wendy. How many minutes does Jenny work?                                | _____             | _____                                      |
| 8. If Eric is 12 years old now, how old was he y years ago?                                                 | _____             | _____                                      |
| 9. Mr. Bob paid \$12 to buy n tickets. How much is each ticket?                                             | _____             | _____                                      |
| 10. Chloe drives 65 kilometers per hour. How far will she be if she drives for t hours?                     | _____             | _____                                      |



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Write an expression to answer each question. State what the variable is. The first one is done for you as an example.

|                                                                                                             | <u>Expression</u> | <u>Variable</u>                     |
|-------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------|
| <i>John scored 3 more points than James. How many points did John score?</i>                                | $p + 3$           | $p$ = number of points James scored |
| 1. Angel had \$45 in her pocket. She bought a dress for \$d. How much does she has left?                    | $\$45 - d$        | d= cost of the dress                |
| 2. Jess is 3 years younger than Mary. How old is Mary?                                                      | $j + 3$           | j = age of Jess                     |
| 3. Sarah earns \$6 each from selling tumblers. How much would be her earnings after selling t tumblers?     | $\$6t$            | t = number of tumblers sold         |
| 4. Jay had b toy cars. He donated 23 of his toy cars to an orphanage. How many toy cars were left?          | $b - 23$          | b = number of Jay's toy cars        |
| 5. Alexander cut the j meter-long water pipe into 5 equal pieces. How long is each piece of the water pipe? | $\frac{j}{5}$     | j = length of the water pipe        |
| 6. Dennis works for \$8 per hour at a town's bakeshop. How much money will he earn after x hours?           | $\$8x$            | x= number of hours worked           |
| 7. Jenny works 15 minutes less than Wendy. How many minutes does Jenny work?                                | $w - 15$          | w = number of minutes Wendy worked  |
| 8. If Eric is 12 years old now, how old was he y years ago?                                                 | $12 - y$          | y = number of years                 |
| 9. Mr. Bob paid \$12 to buy n tickets. How much is each ticket?                                             | $\frac{\$12}{n}$  | n = number of tickets               |
| 10. Chloe drives 65 kilometers per hour. How far will she be if she drives for t hours?                     | $65t$             | t = number of hours                 |