

Oppgave 1. Regn ut.

- a) $3a - 5a + 4b + 2a - 7b$
- b) $3ab + 2b - 4ba - 5a + 5b + 2a$
- c) $b(a - 2b) + (b - a)(1 + 2b)$
- d) $a^3(2 - ab + b - (a^{-1} + a^{-2}))$

Oppgave 2. Forkort brøkene.

- a) $\frac{15x^2}{3x}$
- b) $\frac{15x^2 + 5x}{10xy}$
- c) $\frac{2a^6 w^3 f^9}{6a^{11} f^7 w^2}$
- d) $\frac{4x^2 - 6ax}{6ax - 9a^2}$

Oppgave 3. Regn ut.

- a) $3^3 - 2 \cdot 3^2$
- b) $2^6 : 2^{-2} \cdot 2^{-3} : 2^4$
- c) $5 \cdot 10^{-1} - 45 \cdot 10^{-2}$
- d) $-2^2 \cdot (-2)^2$
- e) $1 - 2^{-3}(2 - 2^{-2})$

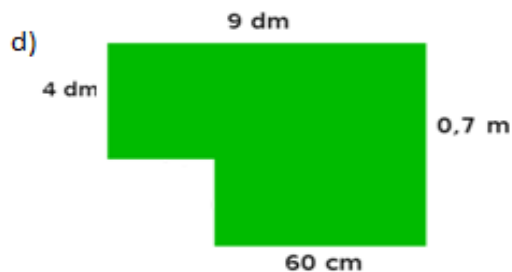
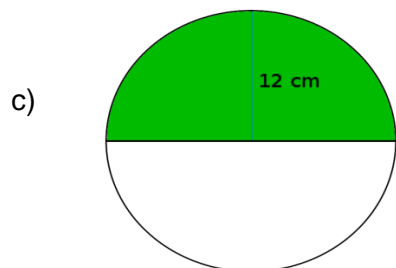
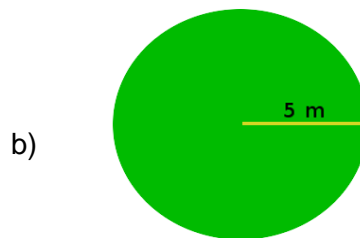
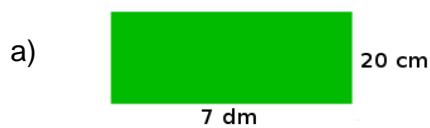
Oppgave 4. Regn ut.

- a) $\frac{3}{10} - \frac{1}{6} + \frac{1}{5}$
- b) $\frac{2y}{4x} - \frac{x-3}{10}$
- c) $\frac{2}{9a} : \frac{3x}{3a}$

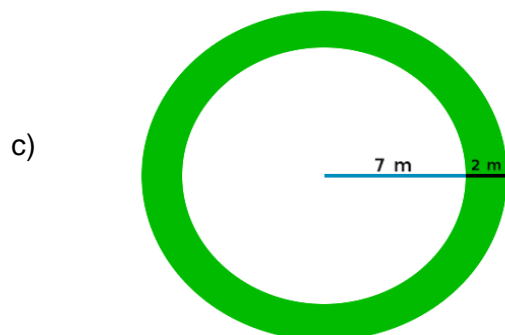
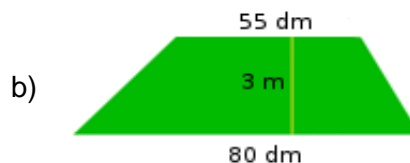
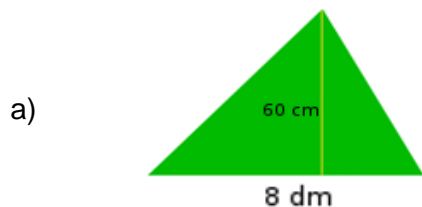
Oppgave 5. Regn ut.

- a) $5 \text{ km} + 90 \text{ m} + 0,7 \text{ km}$
- b) $13 \text{ cm} + 2 \text{ dm} - 50 \text{ mm}$
- c) $3 \text{ m} - 200 \text{ mm} - 0,02 \text{ mil}$
- d) $2 \text{ dm}^2 + 80 \text{ cm}^2 - 5 \text{ 000 mm}^2$
- e) $200 \text{ 000 cm}^3 + 2 \text{ m}^3$
- f) $9 \text{ dl} - 20 \text{ cl} + 300 \text{ cm}^3$

Oppgave 6. Regn ut arealet og omkretsen til de grønne figurene.



Oppgave 7. Regn ut arealet til figurene.



Oppgave 8. Denne oppgaven er fra eksamen 10. klasse våren 2011.

Hanne kjøpte en moped som kostet 26 990 kroner i 2009.
Prisen på mopeden økte med 12 % fra 2009 til 2010.

a) Hva kostet mopeden i 2010?

En dag kjørte Hanne 10 km med mopeden.
Farten var 30 km / t.

b) Hvor mange minutter tok turen?

I juni kjørte Hanne 600 km med mopeden.
Mopeden brukte 0,2 liter bensin pr mil.

c) Hvor mange liter bensin brukte mopeden i juni?

